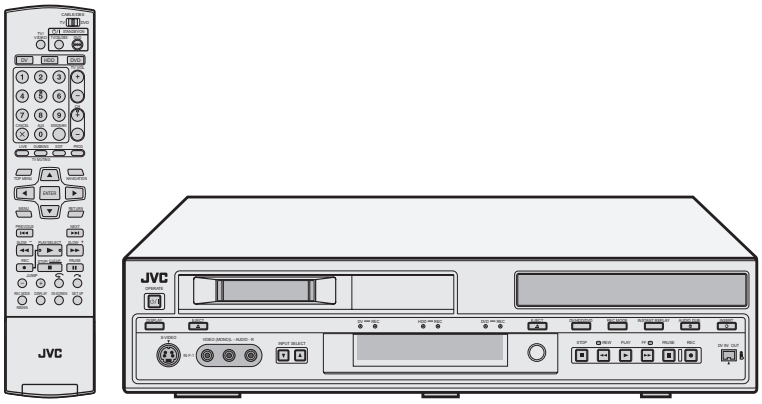
JVC

SERVICE MANUAL

DVD / HDD & Mini DV VIDEO RECORDER

SR-DVM70US



SR-DVM70US [D4MC29]

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2005/5

SPECIFICATION

GENERAL	
Power requirement	AC 120 V, 60 Hz
Power consumption	
Power on	49 W
Power off	15 W
Temperature	
Operating	5°C to 35°C (41°F to 95°F)
Storage	-20°C to 60°C (-4°F to 140°F)
Operating position	Horizontal only
Dimensions (WxHxD)	435 mm × 96 mm × 372 mm (17-1/10" × 3-4/5" × 14-3/5")
Weight	6.2 kg (13.7 lbs)
Input/Output	
Video input	0.5 - 2.0 Vp-p, 75 Ω (pin jack)
Video output	1 Vp-p, 75 Ω (BNC)
Audio input	-8 dB, 50 kΩ (pin jack), Corresponding to mono (left)
Audio output	-8 dB, 1 kΩ (pin jack)
S-video input	Y: 0.8 - 1.2 Vp-p, 75 Ω, C: 0.2 - 0.4 Vp-p, 75 Ω
S-video output	Y: 1.0 Vp-p, 75 Ω, C: 0.3 Vp-p, 75 Ω
DV	4-pin for DV IN/OUT
Component video output	Y: 1.0 Vp-p, 75 Ω, CB/CR, PB/PR: 0.7 Vp-p, 75 Ω Corresponding to copy protection
Remote Input	Ø3.5 mm Jack
Serial Command	D-SUB 9-PIN
Digital audio output	Optical, Coaxial Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu
VIDEO/AUDIO (DVD deck)	
Recording time	Maximum 8 hours (with 4.7 GB disc) (XP): Approx. 1 hour, (SP): Approx. 2 hours, (LP): Approx. 4 hours (EP): Approx. 6 hours, (FR): Approx. 1 hour - 8 hours
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)
Video recording compression system	MPEG2 (CBR/VBR)
VIDEO/AUDIO (HDD Deck)	
Video recording compression system	MPEG2 (VBR)
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)
Recording time	Maximum 300 hours (with 160 GB HDD) (XP): Approx. 34 hours, (SP): Approx. 69 hours, (LP): Approx. 138 hours (EP): Approx. 209 hours, (FR): Approx. 300 hours
VIDEO/AUDIO (DV Deck)	
Signal system	NTSC color signal and EIA monochrome signal, 525 lines/60 fields
Recording system	Digital Component Recording
Format	DV format (SD mode)
Cassette	Mini DV Cassette
Maximum recording time	
(SP)	(SP): 80 min. with M-DV80ME cassette
(LP)	(LP): 120 min. with M-DV80ME cassette
Audio recording system	PCM 48 kHz, 16 bit (2 ch)/32 kHz, 12 bit (4 ch)
TUNER/TIMER	
Tuning system	Frequency synthesized tuner
Channel coverage	VHF: Channels 2 - 13, UHF: Channels 14 - 69, CATV: 113 channels
Memory backup time	Approx. 60 minutes
ACCESSORIES	
Provided accessories	RF cable, Audio/Video Cable, Infrared remote control unit, "AA" battery × 2

- Specifications shown are for SP mode unless otherwise specified.
- E.& O.E. Design and specifications subject to change without notice.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- Cassettes marked Mini DV can be used with the DV deck of this unit. The DV deck can play back and record only PAL signals.
- VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
- The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.
- DSS is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics. DISH Network is a trademark of Echostar Communications Corporation.
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SECTION 1
PRECAUTION

1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold.However,in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

1.1.1 Precautions during Servicing

(1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product.When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

(2) Parts identified by the ⚠symbol and shaded ( ) parts are critical for safety.
Replace only with specified part numbers.

NOTE :
Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

(3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

(4) Use specified internal wiring. Note especially:
- Wires covered with PVC tubing
- Double insulated wires
- High voltage leads

(5) Use specified insulating materials for hazardous live parts. Note especially:
- Insulation Tape
- PVC tubing
- Spacers
- Insulation sheets for transistors
- Barrier

(6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

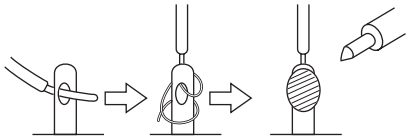


Fig.1-1-1

(7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

(8) Check that replaced wires do not contact sharp edged or pointed parts.

(9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

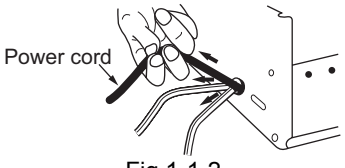


Fig.1-1-2

(10) Also check areas surrounding repaired locations.

(11) Products using cathode ray tubes (CRTs)In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

(12) Crimp type wire connectorIn such cases as when replacing the power transformer in sets where the connections between the power cord and power trans former primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**
  a) Remove the old connector by cutting the wires at a point close to the connector.Important : Do not reuse a connector (discard it).

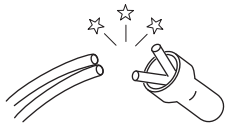


Fig.1-1-3

  b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

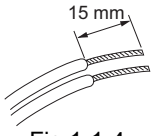


Fig.1-1-4

  c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

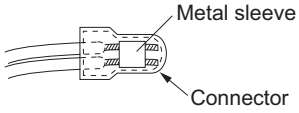


Fig.1-1-5

  d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

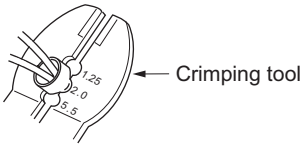


Fig.1-1-6

  e) Check the four points noted in Fig.1-1-7.

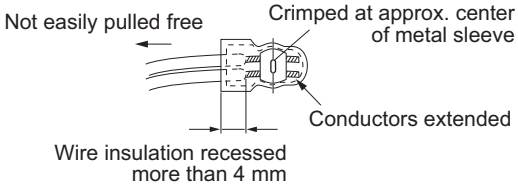

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.1-1-7

1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).See table 1 below.

(2) Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.

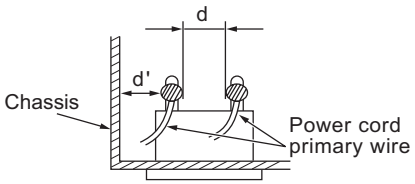


Fig.1-1-8

(4) Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.

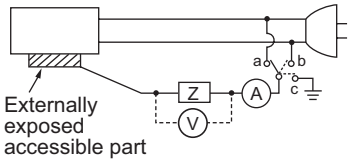
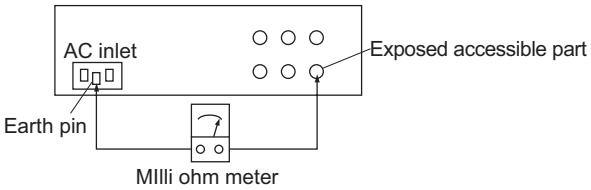


Fig.1-1-9

(5) Grounding (Class 1 model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig.1-1-10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦R≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Fig.1-1-11

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Fig.1-1-12

NOTE :
These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

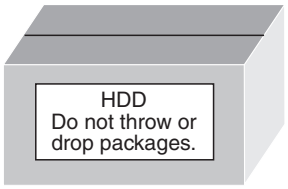
1.2 Hard Disk Drive (HDD) Handling Precautions

The HDD is a precision device for use in reading and writing a large amount of data on or from a disk rotating at a high speed. If it is not handled carefully, either abnormal operation may result or it may not be possible to read data. The HDD is sensitive to the following items and special care is required in safeguarding against them when handling an HDD. Also take care in handling a set incorporating an HDD.

(1) Vibrations and impacts
(2) Static electricity
(3) Rough handling

1.2.1 Handling in transport, etc.

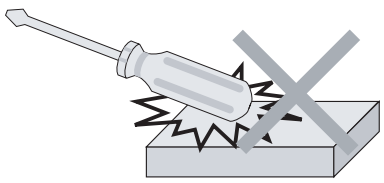
- Be sure to place the HDD in the manufacturer's specified package carton before transport.
- When receiving a package containing an HDD, check that the package carton is not damaged (such as having holes in the carton, crushed corners, etc.).
- Do not impact the packaging carton when loading or unloading it.
- It is not permitted to use the inner package carton only for transporting an HDD.
- Do not stack package cartons one upon another.



Be sure to package and transport the HDDs correctly.

1.2.2 Handling an HDD in the stand-alone status

- When handling an HDD on a hard workbench, place an antistatic mat (rubber sheet) or similar object on the hard surface (to prevent any impacts occurring between the HDD and bench).
- Do not stack the HDDs one upon another.
- Do not knock an HDD with a hard object (such as a screwdriver).
- Do not place an HDD on its side panel without using a support (do not place an HDD in an unstable position).



1.2.3 Handling the installation of an HDD

- Place antistatic mats or similar sheets on all of the surfaces on which work is conducted or when the HDD is transported.
- Do not permit the HDD to knock against the set's brackets.
- When screwing the brackets, be careful not to knock the HDD. When using a power screwdriver, use a low-shock model and arrange the tightening torque properly.
- When mounting an HDD in a main body, take care not to apply excessive force to the brackets.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 Service position

This unit has been designed so that the Mechanism and Main board assemblies can be removed together from the bottom chassis. Before diagnosing or servicing the circuit boards, take out the major parts from the bottom chassis.

2.1.1 How to set the "Service position"

(1) Refer to the disassembly procedure and perform the disassembly of the major parts before removing the Mechanism assembly.
(2) Remove the screws that fix the Mechanism, Main board assembly to the bottom chassis. If any other screws are used to fix the boards, remove them also.
(3) Remove the combined Mechanism, HDD, DVD unit, switching regulator, digital, DV jack, junction and Main board assemblies.
(4) If any other major parts are used, remove them also.
(5) Connect the wires and connectors of the major parts that have been removed in steps (1) to (4). (Refer to Fig. 2-1a.)
(6) Place the combined Mechanism, Main board and other board assemblies upside down.
(7) Insert the power cord plug into the power outlet and then proceed with the diagnostics and servicing of the board assembly.

Notes:

- **Before inserting the power cord plug into the power outlet, make sure that none of the electrical parts are able to short-circuit between the workbench and the board assembly.**
- **For the disassembly procedure of the major parts and details of the precautions to be taken, see "Removing the major parts".**
- **If there are wire connections from the Main board and Mechanism assemblies to the other major parts, be sure to remove them (including wires connected to the major parts) first before performing step (2).**
- **When carrying out diagnosis and repair of the Main board assembly in the "Service position", be sure to ground both the Main board and Mechanism assemblies. If they are improperly grounded, there may be noise on the playback picture or FDP counter display may move even when the mechanism is kept in an inoperative status.**
- **In order to diagnose the playback or recording of the cassette tape, set the Mechanism assembly to the required mode before placing it upside down. If the mechanism mode is changed (including ejection) while it is in an upside down position the tape inside may be damaged.**
- **For some models, the mechanism and board assemblies are attached by connectors only. When carrying out a diagnosis or repair of the boards in the "Service position", make sure that the connectors are not disconnected.**

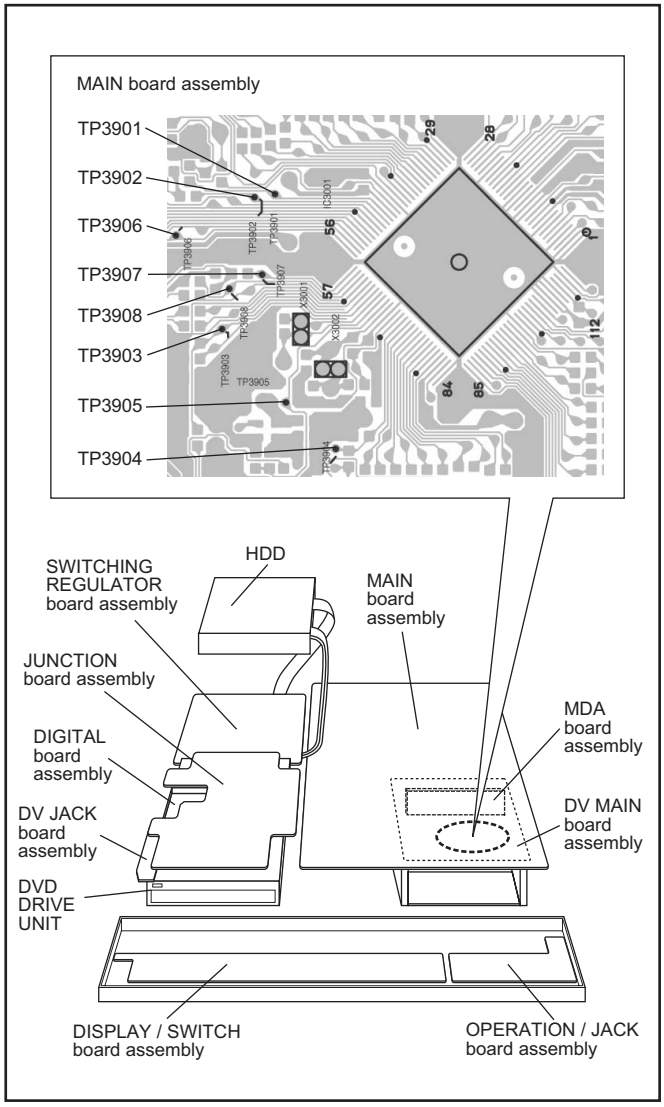


Fig.2-1a

2.2 Jig RCU mode

This unit uses the following two modes for receiving remote control codes.

(1) User RCU mode:Ordinary mode for use by the user.

(2) Jig RCU mode: Mode for use in production and servicing.

When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). As both of the above two modes are stored in the EEPROM, it is required to set the unit back to the User RCU mode each time that an adjustment is made or to check that the necessary operations have been completed.These modes can be set by the operations described below.

Note:

- **When the unit is set to Jig RCU mode and when the unit is under Jig RCU mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since the unit is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."**
- **Confirm the RCU mode when exchanged parts. Since some SERVICE PARTS sets the unit to the Jig RCU mode as initial setting. Therefore please set the unit to the user RCU mode after replacing the EEPROM.**

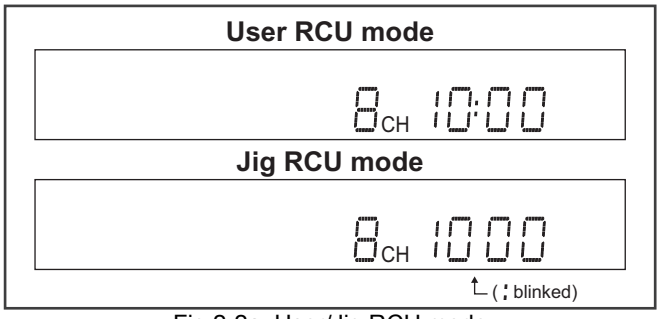


Fig.2-2a User/Jig RCU mode

2.2.1 Changing Remote Control Code

(1) Slide the TV/CABLE/DBS/DVD switch to DVD.

(2) Press the number key "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then,press the "ENTER" button, and then release the "SET UP" button.

(3) Press the "POWER" button on the unit to turn off the unit.

(4) Press the "PLAY" button on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.

(5) Press the "STOP" button on the remote control to change the unit's code. When FDP indicator displays "DVD1," it means that the Remote Control Code has been changed to "1."

Note:

When "POWER SAVE" is set to "ON", it is not possible to change the remote code.

2.2.2 Setting the Jig RCU mode

(1) Turn on the power.

(2) Press the "DV/HDD/DVD" select button repeatedly on the unit so that the DVD lamp lights up on the unit.

(3) Press the following remocon keys continuously within 2 seconds " SET UP " → " 2 " → " 8 " → " ENTER ".
When the unit is set to the Jig RCU mode, the symbols (" : ") in the time display of the FDP are blinked.
(Refer to Fig.2-2a User/Jig RCU mode)

2.2.3 Setting the User RCU mode

(1) Turn off the power.

(2) Press the "REC" and "PAUSE" buttons of the unit simultaneously. Alternatively, transmit the code "43-9D" from the Jig RCU.

SECTION 3
DISASSEMBLY

3.1 Removing the major parts

3.1.1 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)

: The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN101	⇔	Digital	CN761	40
WR2b	Main	CN103	⇔	Digital	CN762	10

■ **Destination of connectors**

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN3104	⇔	Operation/jack	CN7201	15
WR2b	Main	CN3102	⇔	Display/switch	CN7001	15
WR3a	Junction	CN5504	↔	DVD unit		4
WR3b	Digital	CN2201	⇔	DVD unit		40
WR4a	Digital	CN2101	⇔	HDD		40
WR4b	Digital	CN1405	⇔	Junction	CN1406	4
WR4c	Junction	CN5502	↔	Digital	CN1003	6
CN7108 (CN1001)	Junction	CN7108	⬌	Digital	CN1001	28
CN7109 (CN1002)	Junction	CN7109	⬌	Digital	CN1002	20
CN7121 (CN1802)	Junction	CN7121	⬌	Digital	CN1802	14
WR5a	Junction	CN7126	↔	DV jack	CN4104	6
WR6a	SW. REG	CN5304	⇔	Junction	CN5501	19
WR6b	SW. REG	CN5303	↔	HDD		4
WR6c	SW. REG	CN5301	⇔	Main	CN5402	19
WR6d	SW. REG	CN5302	↔	Fun motor		2
WR8a	Junction	CN7127	↔	DV Main	CN2002	6
WR8b	Main	CN3103	⇔	Junction	CN7102	19
WR8c	Main	CN2602	⇔	Junction	CN8001	11
WR8d	Main	CN701	⇔	Junction	CN7123	4
WR8e	Main	CN901	⇔	Junction	CN7107	9
WR9a	D-SUB	CN7401	⇔	DV Main	CN1505	4
WR11a	DV Main	CN1502	⇔	DV mechanism sensor		15
WR11b	DV Main	CN4001	⇔	DV drum motor		8
WR11c	DV Main	CN1501	⇔	DV MDA	CN5506	20
WR11d	DV MDA	CN5501	↔	Main	CN5403	5
WR12a	Main	CN5404	⇔	DV Main	CN1001	8
WR12b	Main	CN2601	⇔	DV Main	CN3701	8
WR12c	Main	CN501	⇔	DV Main	CN3501	7
WR12d	Main	CN3104	⇔	DV Main	CN1503	7

3.1.2 How to read the procedure table

This table shows the steps for disassembly of the externally furnished parts and board assemblies. Reverse these steps when re-assembling them.

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a),	<Note 1a>
	Bracket		2(S1c)	

(1) (2) (3) (4) (5)

(1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
These numbers are also used as the identification (location) No. of parts Figures.

(2) Part name to be removed or installed.

(3) Fig. No. showing procedure or part location.

(4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).

Note:

- **The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.**

(5) Adjustment information for installation

3.1.3 Disassembly procedure

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1b	8(S1a)	
[2]	Front panel assembly (Operation jack board assembly) (Display/switch display board assembly)	3-1a 3-1b	(S2a),3(L2a),5(L2b) CN3104(WR2a),CN3102(WR2b)	<Note2a> <Note2b>
[3]	DVD unit (Bracket)	3-1a 3-1b	4(S3a),4(S3b) CN5504(WR3a),CN2201(WR3b)	<Note2a>
[4]	Digital board assembly	3-1a 3-1b	4(S4a),CN2101(WR4a) CN1405(WR4b),CN5502(WR4c), CN7108(CN1001),CN7109(CN1002) CN7121(CN1802)	<Note2a>
[5]	DV jack board assembly	3-1a,3-1b	(S5a),CN7126(WR5a)	<Note2a>
[6]	Switching regulator board assembly	3-1a 3-1b	4(S6a),(S6b) CN5304(WR6a),CN5303(WR6b), CN5301(WR6c),CN5302(WR6d)	
[7]	HDD (Bracket),(Sheet)	3-1a 3-1b	4(S7a),4(S7b)	<Note2a>
[8]	Junction board assembly	3-1a 3-1b	(S8a),CN7127(WR8a), CN3103(WR8b), CN2602(WR8c), CN701(WR8d),CN901(WR8e)	<Note2a>
[9]	D-SUB board assembly	3-1b	2(S9a),CN7401(WR9a)	
[10]	Rear cover	3-1b	(S10a),6(S10b),(S10c),3(L10a)	
[11]	DV mechanism assembly	3-1a 3-1b	3(S11a),CN1502(WR11a), CN4001(WR11b), CN1501(WR11c),CN5501(WR11d)	
[12]	DV main board assembly (Bracket)	3-1a 3-1b	4(S12a),4(S12b),CN5404(WR12a), CN2601(WR12b),CN501(WR12c), CN3104(WR12d)	
[13]	Bracket(DV MAIN)	3-1b	3(S13a)	<Note3a>
[14]	Main board assembly	3-1a,3-1b	3(S14a)	<Note3b>

< Note 2a >

- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.

< Note 2b >

- When attaching the Front panel assembly, make sure that the door opener of DV deck is in the down position.

< Note 3a >

- When reattaching the bracket(DV MAIN), secure the screws (S13a) in the order of 1,2,3.

< Note 3b >

- When reattaching the Main board assembly, secure the screws (S14a) in the order of 1,2,3.

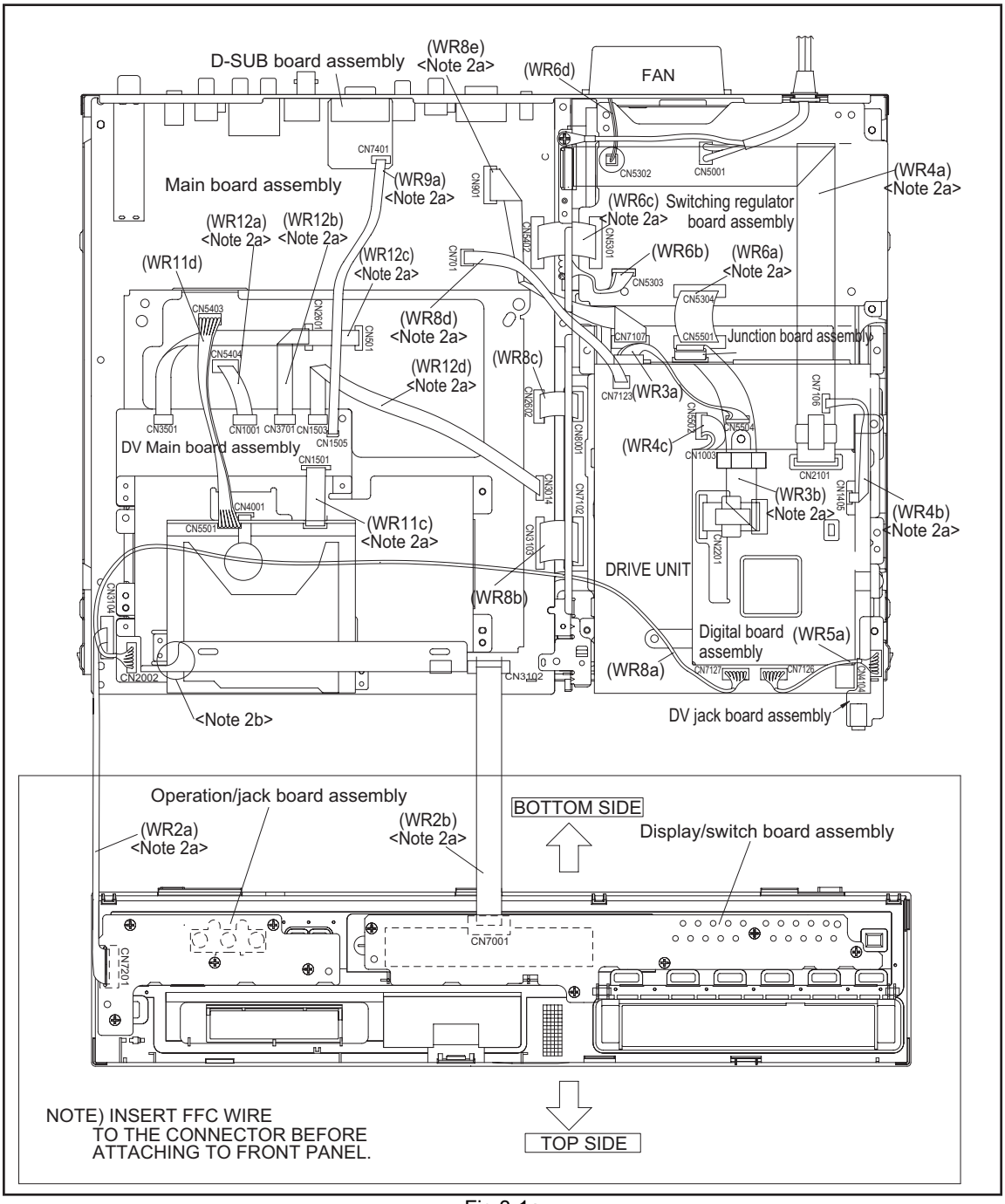


Fig.3-1a

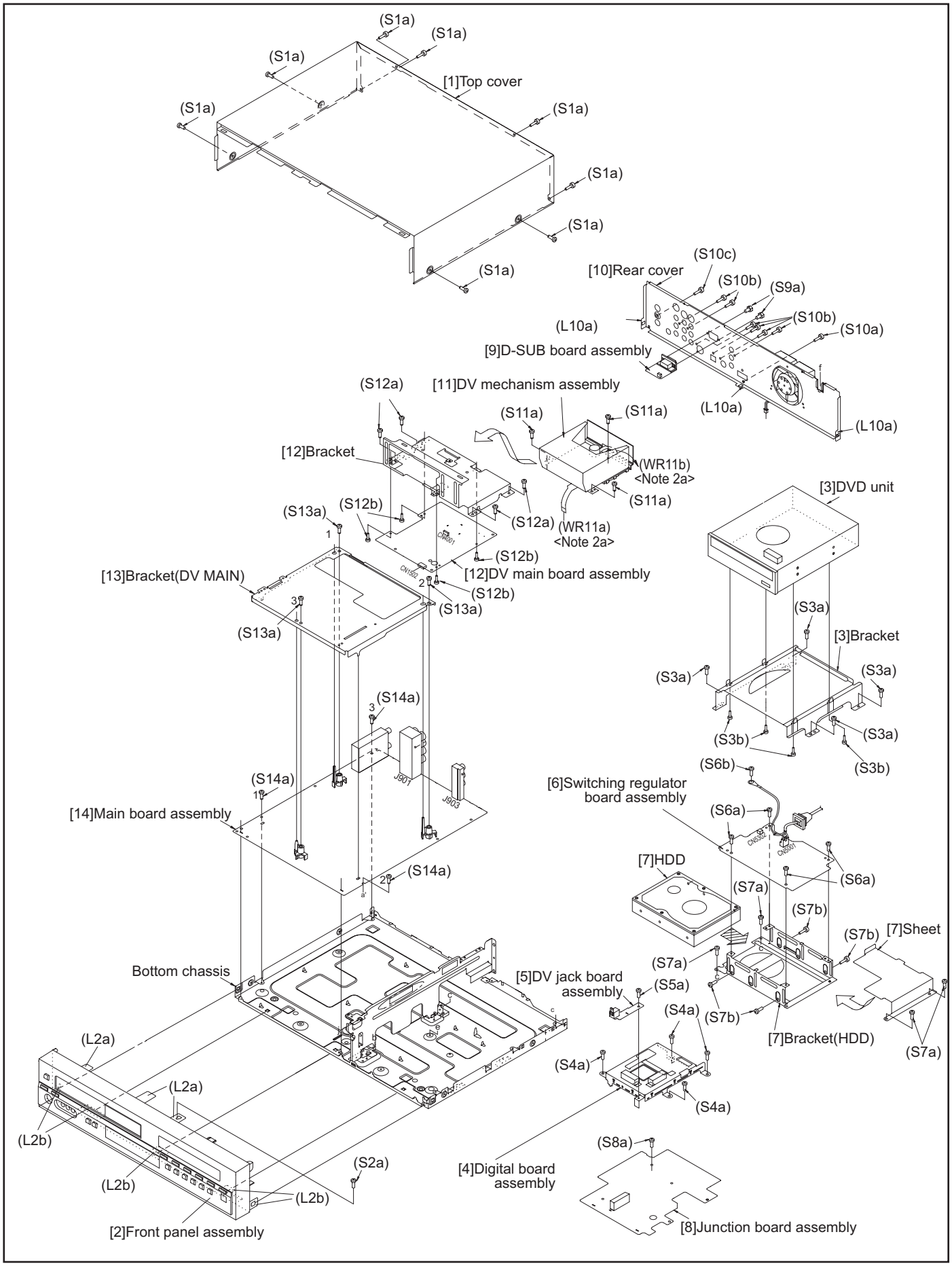

(S1a)
[1]Top cover
[10]Rear cover
(S10c)
(S10b)
(S9a)
(L10a)
[9]D-SUB board assembly
(S10a)
(S12a)
[11]DV mechanism assembly
(S11a)
[12]Bracket
(WR11b)
<Note 2a>
(S13a)
(S12b)
(WR11a)
[12]DV main board assembly
[13]Bracket(DV MAIN)
[3]DVD unit
[3]Bracket
(S3a)
(S3b)
(S14a)
[14]Main board assembly
[6]Switching regulator
board assembly
(S6a)
(S6b)
[7]HDD
(S7a)
(S7b)
[7]Sheet
[7]Bracket(HDD)
Bottom chassis
[5]DV jack board
assembly
(S5a)
(S4a)
(L2a)
(L2b)
(S2a)
[2]Front panel assembly
[4]Digital board
assembly
(S8a)
[8]Junction board assembly

Fig.3-1b

SECTION 4
ADJUSTMENT

4.1 Before adjustment

4.1.1 Precautions

(1) Observe the specified screw tightening torque when attaching parts. The torque should be 0.04 Nm (0.4 kgfcm) unless otherwise specified.
(2) Always disconnect the power supply unit before proceeding to solder or attach parts.
(3) When plugging or unplugging a wire, be careful not to damage the connector.
(4) When replacing a part, be careful not to damage other parts or to mistakenly attach parts.

4.1.2 Tools required for adjustments

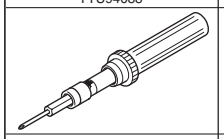
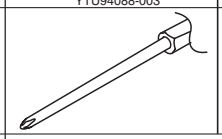
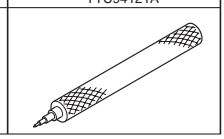
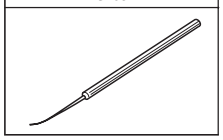
1 TORQUE DRIVER YTU94088	2 BIT YTU94088-003	3 Tool for installing slit washer YTU94121A
		
4 Tool for replacing tip IC PTS40844-2		
		

Table 4-1-1

4.1.3 Disassembly and assembly procedures

The following table shows the steps for assembling or disassembling the mechanism parts. Read the following descriptions carefully before actual assembly/disassembly operations.

(1) : Order of disassembly steps. Reverse this order when assembling.
(2) : Name of the disassembled/assembled part.
(3) : Surface where the disassembled/assembled part is mounted. T = Top. B: Bottom.
(4) : Number of disassembly drawing.
(5) : Parts to be removed in disassembly/assembly, such as screws, washers and springs, and the points.

Symbol	Name & Point
S	Screw
W	Washer
P	Spring
*	Connector, lock(L), soldering(SD), shield, etc.

[Example] • (W1) = Remove the washer W1.
• (P1) = Remove the spring P1.

(6) : Notes for disassembly/assembly.
(7) : For the phase alignment in disassembly/assembly and the parts which require phase adjustments after assembly, see "4.7 Mechanism phase check/adjustment".

4.1.4 Screws and washers used in disassembly/assembly of the mechanism assembly

Table 4-1-2 shows the symbols and part numbers of the screws and washers used in the mechanism assembly.
When disassembling or assembling the mechanism assembly,be sure to attach screws and washers correctly by referring to the following table.

Symbol	Part number
(S1)	QYSDSP2005ZA
(S2)	YQ43893
(S3)	YQ43893-7

Symbol	Part number
(W1)	YQ44246
(W2)	YQ44246-3

Table 4-1-2

Step/Loc No.	Part Name		Fig. No.	Point	Note	Discription
1	[A] Cassette housing assembly/ [B] Mechanism assembly	T	1	2(S1),(L1) (L5)	1	
2	[1]Drum assembly	T	2	3(S2)	2,3	
3	[2]Motor bracket assembly	T	2	4(S2)	2,4	
4	[3]Middle catcher assembly	T	3	3(S2)		
	↑ (1)	↑ (2)	↑ (3)	↑ (4) ↑ (5)	↑ (6)	↑ (7)

4.2 Disassembly/assembly of the mechanism assembly

4.2.1 Introduction

The disassembly and assembly of the mechanism assembly should usually be performed in the ASSEMBLY mode.(Table 4-2-1)
Note that the mechanism is in the cassette in (C-IN) mode when the mechanism assembly is taken out of the set and that the C-IN mode should be switched to the ASSEMBLY mode in this case.
To set the ASSEMBLY mode, apply 3 V DC to the electrodes on the upper part of the loading motor as shown in Fig. 4-2-7.

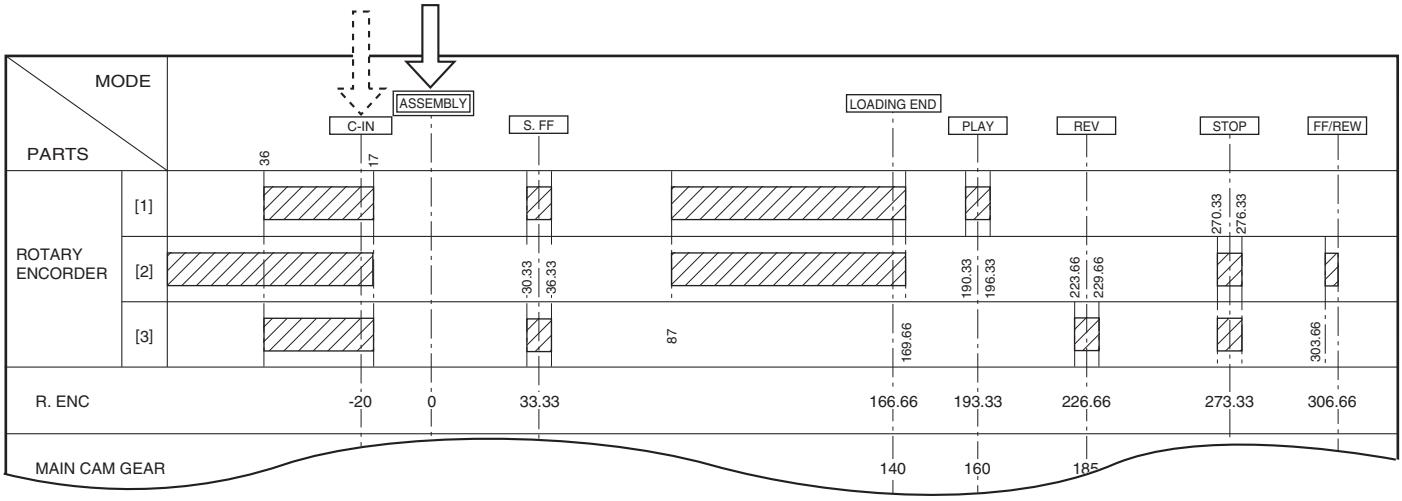


Table 4-2-1

4.2.2 Mechanism modes

The mechanism has 6 modes as shown in Table 4-3-1. The current mode can be confirmed by the positioning of the "ℴ" marking on the sub-cam gear and the "▲" marking on the mechanism. See the following figures (Figs. 4-2-1 to -6) for details.

Note:

- **This mechanism assembly has another ASSEMBLY mode. However, this mode cannot be identified from the markings because it corresponds to an intermediate position between the C-IN (C) mode and S-FF (H) mode. This mode can be confirmed by the rotary encoder phase. See Fig. 4-2-7.**

1. Checking the mechanism mode

＜C−IN : [C] ＞

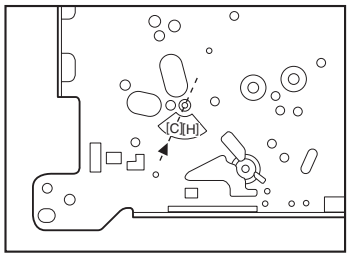


Fig.4-2-1

＜S−FF : [H] ＞

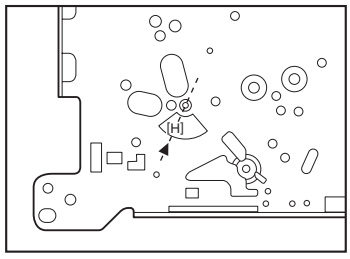


Fig.4-2-2

＜PLAY : [P] ＞

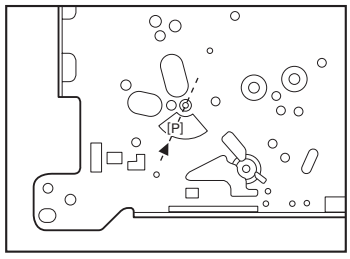


Fig.4-2-3

＜REV : [R] ＞

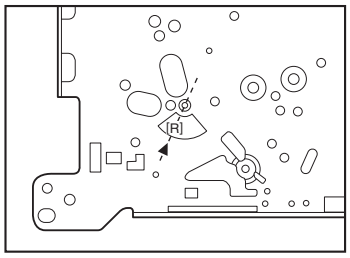


Fig.4-2-4

＜STOP : [S] ＞

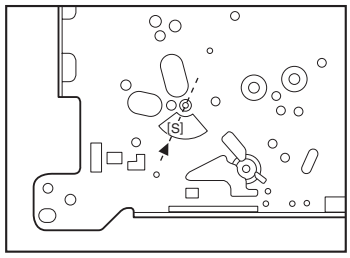


Fig.4-2-5

＜FF/REW : [F] ＞

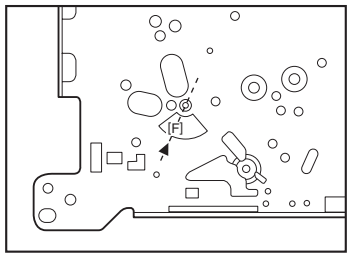


Fig.4-2-6

2. Setting/checking the ASSEMBLY mode

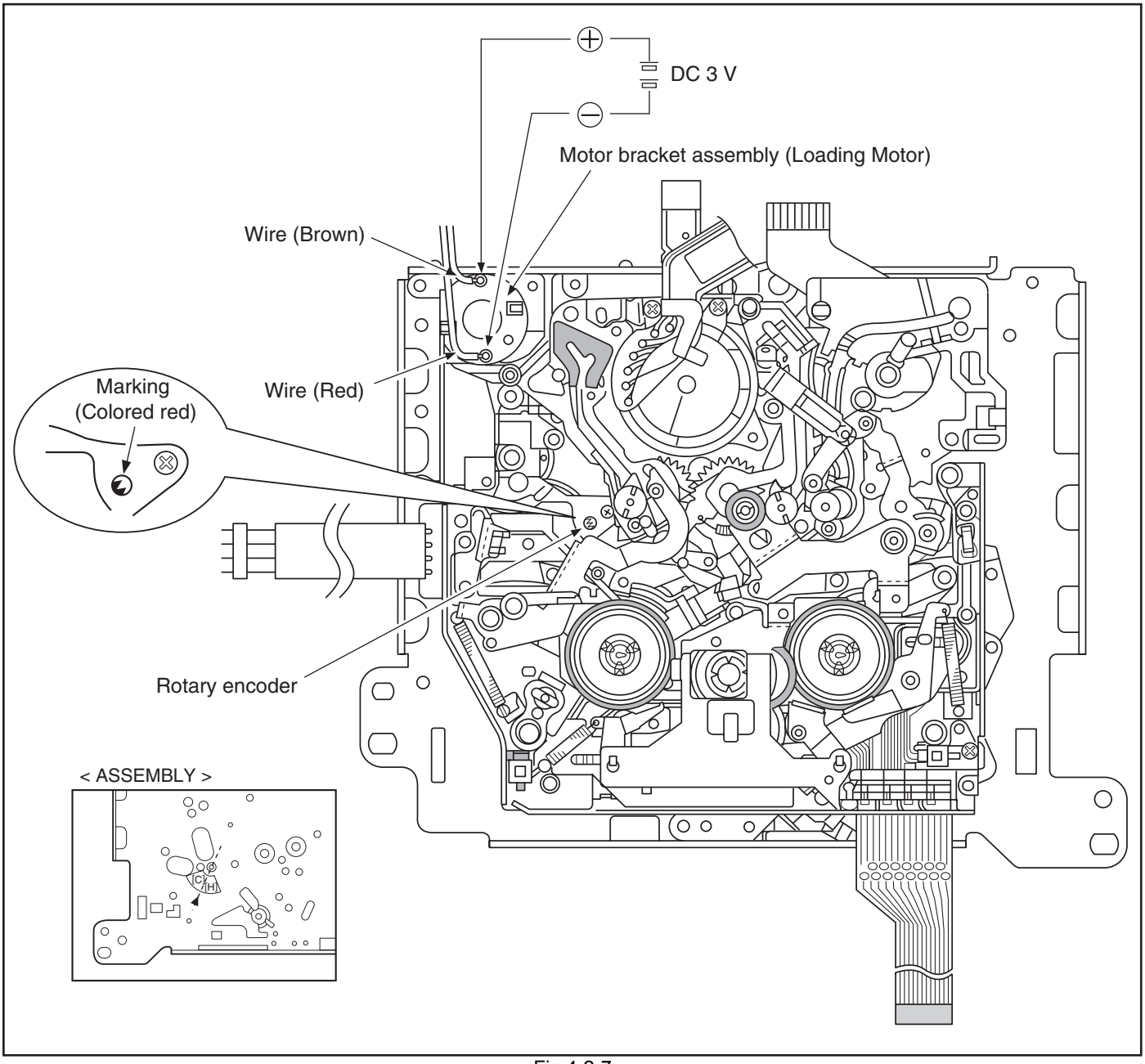


Fig.4-2-7

4.3 Mechanism timing chart

See following table (Table 4-3-1).

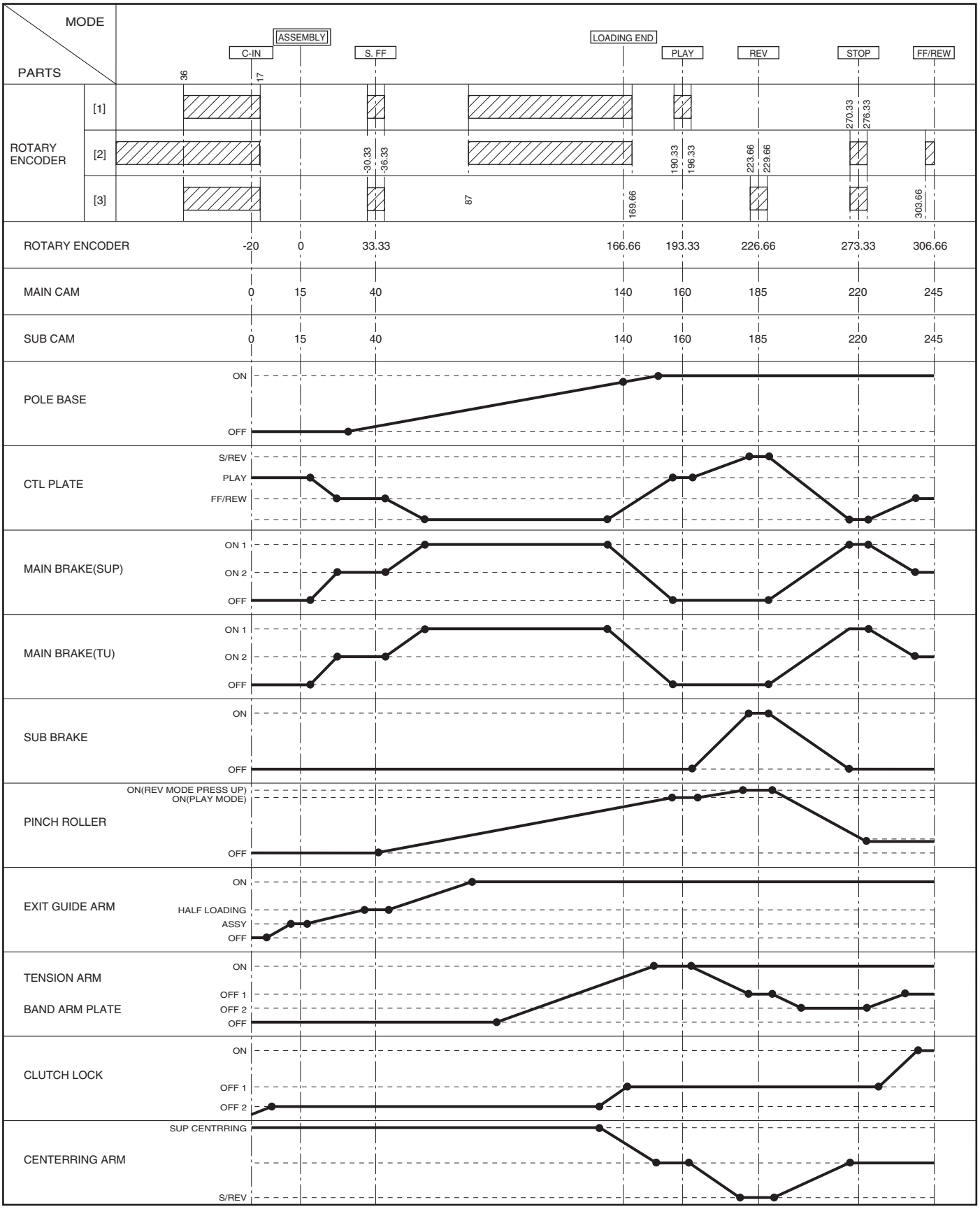
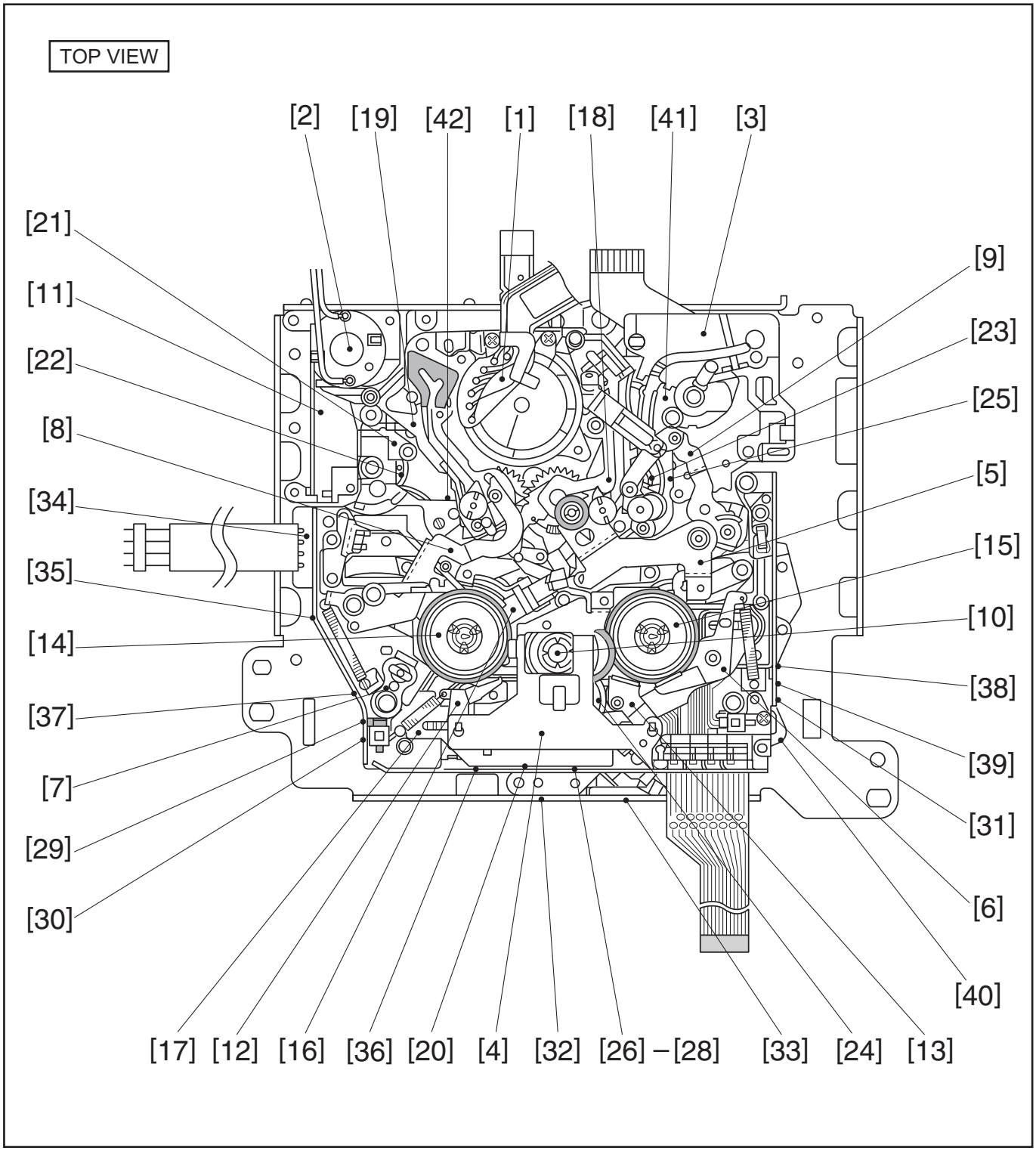


Table 4-3-1

4.4 Mechanism assembly/disassembly procedure table

Step/Loc No.	Part Name		Fig. No.	Point	Note	Discription
1	[A] Cassette housing assembly/ [B] Mechanism assembly	T	4-5-1	2(S1),(L1) (L5)	1	
2	[1] Drum assembly	T	4-5-2	3(S2)	2,3	
3	[2] Motor bracket assembly	T	4-5-2	4(S2)	2,4	
4	[3] Middle catcher assembly	T	4-5-3	3(S2)		
5	[4] Reel cover assembly	T	4-5-3	(S2), 2(L6)	5	
6	[5] Pinch roller arm assembly	T	4-5-4	(W1), (L7)	6	
7	[6] Sub brake assembly	T	4-5-4	(P1), (W1), (L8)		
8	[7] Band arm plate sub assembly	T	4-5-4	(S3), (L9), (P2), (W2)	7,8	
9	[8] Tension arm sub assembly	T	4-5-4	(P3)	8	
10	[9] Exit guide arm assembly	T	4-5-5	(W1)		
11	[10] Swing arm assembly	T	4-5-5			Position alignment
12	[11] Sub deck assembly	T	4-5-6	4(S2)	9	Position alignment
13	[12] Main brake (Supply) assembly	T	4-5-6	(P4), (L10)		
14	[13] Main brake (Take up) assembly	T	4-5-6	(P5), (L11)		
15	[14] Reel disk assembly (Supply)	T	4-5-7			
16	[15] Reel disk assembly (Take up)	T	4-5-7			
17	[16] Prism	T	4-5-7	(S2)		
18	[17] Control plate	T	4-5-7	2(L12)		
19	[18] Guide rail (Take up) assembly	T	4-5-8	4(S2)	10	Position alignment
20	[19] Guide rail (Supply) assembly	T	4-5-8	(S2), 2(L13)	10	Position alignment
21	[20] Base plate assembly	T	4-5-8	(S2), 2(L14)		
22	[21] Ent. guide base assembly	T	4-5-9	(S2)		
23	[22] Worm wheel 2	T	4-5-9		11	Phase alignment
24	[23] Timing belt	T	4-5-9			
25	[24] Center gear assembly	T	4-5-9			
26	[25] Reel drive pulley assembly	T	4-5-10	(W1)		
27	[26] Push plate	T	4-5-10	(W1)		
28	[27] Clutch lock gear (2)	T	4-5-10			
29	[28] Clutch lock gear (1)	T	4-5-10	(P6)		
30	[29] Tension control arm assembly	T	4-5-11	(L15)	12	Position alignment
31	[30] Brake control arm assembly	T	4-5-11	(W1), (L16)	12	Position alignment
32	[31] Charge arm assembly	T	4-5-11	(L17)	13	Position alignment
33	[32] Connect gear 2	T	4-5-12	(S2)		(Phase alignment)
34	[33] Connect gear 2	T	4-5-12	(S2)		(Phase alignment)
35	[34] Rotary encoder assembly	T	4-5-13	2(S2)	14	Phase alignment
36	[35] Main cam	T	4-5-13	(W1)	15	Phase alignment
37	[36] Arm gear 1 assembly	T	4-5-13	Collar	15,16	Position alignment
38	[37] Centering arm assembly	T	4-5-13	(L18)	15	Position alignment
39	[38] Sub cam	T	4-5-14	(S2)	17	Phase alignment
40	[39] Arm gear 2 assembly	T	4-5-14		17	Position alignment
41	[40] Clutch lock lever assembly	T	4-5-14	(L19)	17,18	Position alignment
42	[41] Capstan motor	T	4-5-15	(P7), Adjust nut		Vertical adjustment
43	[42] Drum base deck	T	4-5-15	3(S2)		


TOP VIEW
[2]
[19]
[42]
[1]
[18]
[41]
[3]
[21]
[11]
[22]
[8]
[34]
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[32]
[26] – [28]
[33]
[24]
[13]

Fig.4-4-1

4.5 Disassembly/assembly

1. [A] Cassette housing assembly/ [B] Mechanism assembly

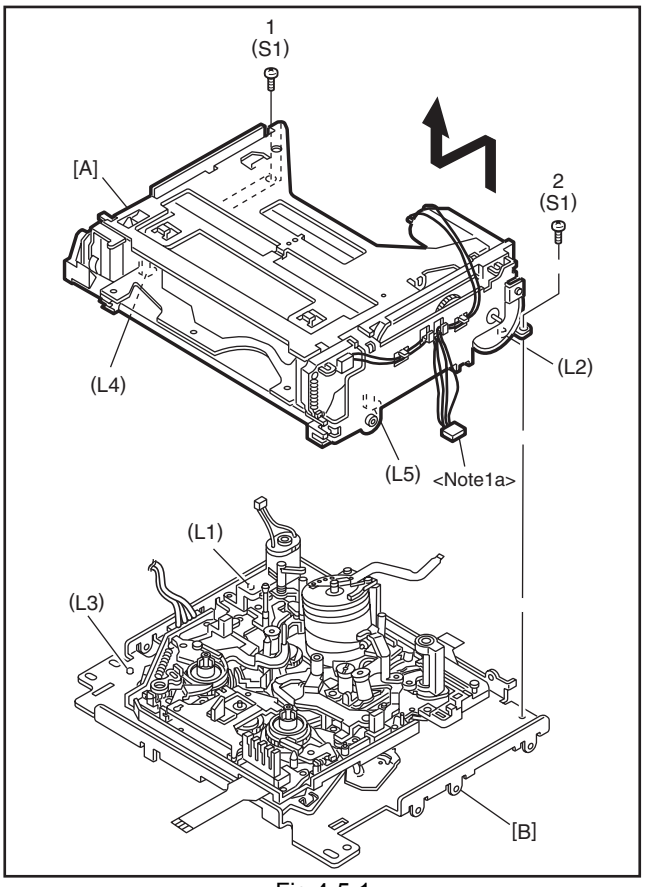


Fig.4-5-1

Note 1a:

If the wires for the cassette housing motor are connected to the circuit board, remove them before disassembly.

2. [1] Drum assembly / [2] Motor bracket assembly

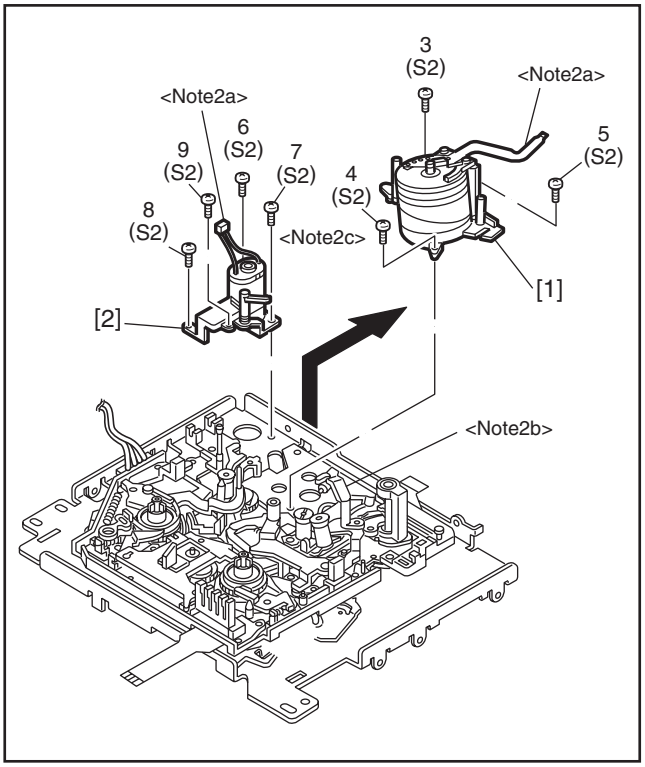


Fig.4-5-2

Note 2a:

If wires are connected to the circuit board, remove them before disassembly.

Note 2b:

Be careful not to damage the drum assembly when removing it.

Note 2c:

The bracket (DV) may come in the way of removal of screw (7). Be sure to remove the bracket before proceeding to the screw removal.

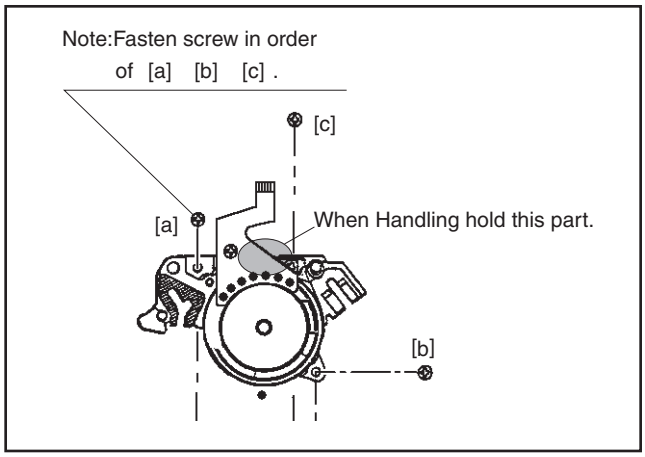


Fig.4-5-2a

3. [3] Middle catcher assembly/ [4] Reel cover assembly

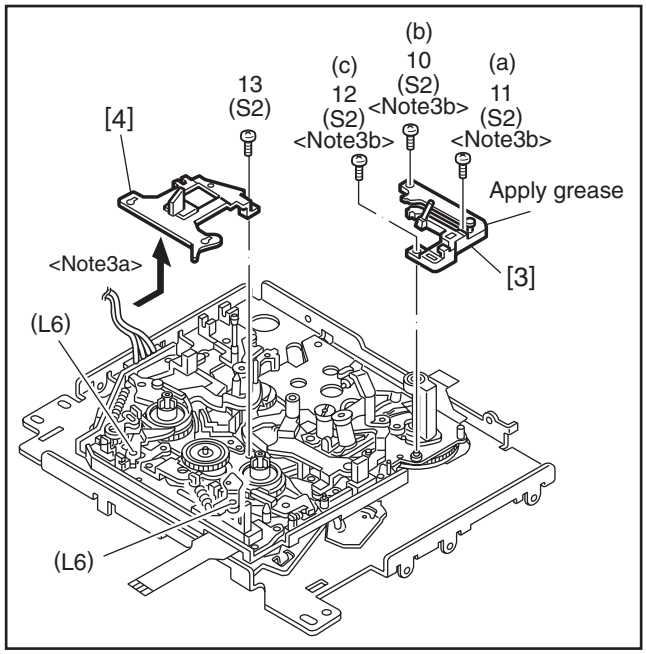


Fig.4-5-3

Note 3a:

Once the reel cover assembly has been removed, the parts located below it tend to slip out easily: Be careful.

Note 3b:

When attaching these screws, screwing order (a),(b),(c)

4. [5] Pinch roller arm assembly/[6] Sub brake assembly/[7] Band arm plate sub assembly/ [8] Tension arm sub assembly

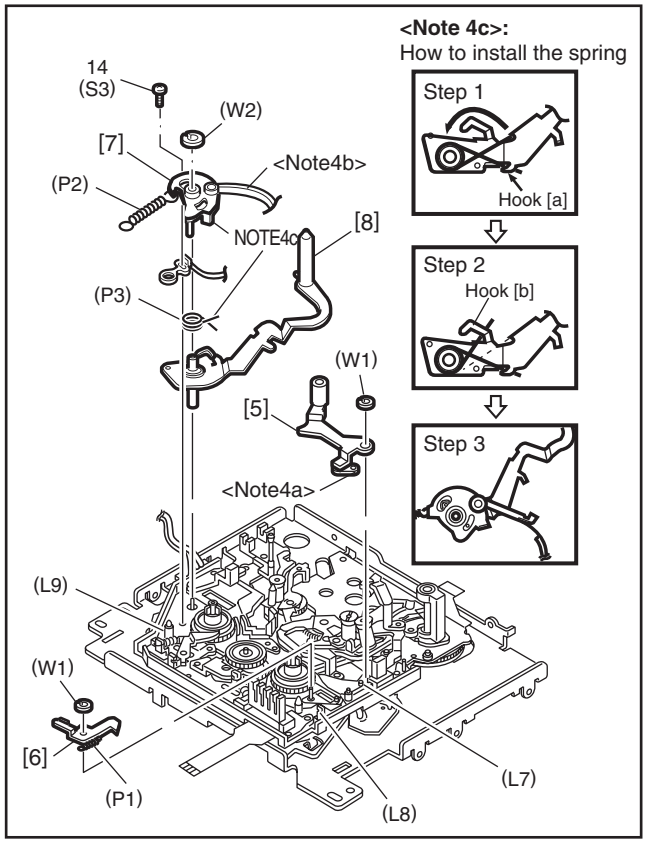


Fig.4-5-4

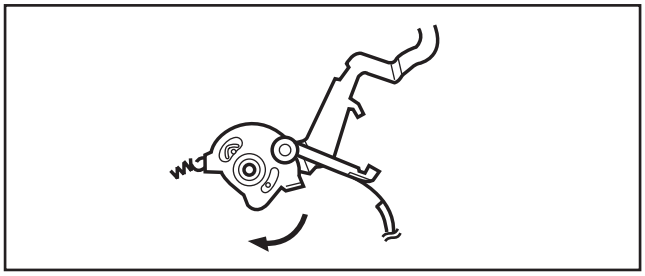


Fig.4-5-4a

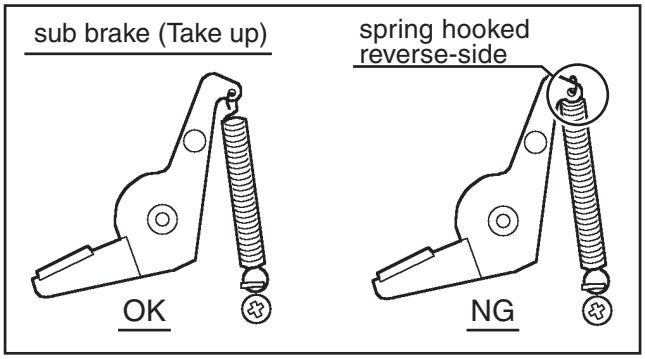


Fig.4-5-4b

Note 4a:

When attaching this part, fit it in the boss (L7) on the charge arm assembly.

Note 4b:

When attaching or removing this part, take care of the handling of the band section.

Note 4c:

After fitting the spring on the shaft, engage it with hook [a] first then with hook [b] .

After attaching it, set it to the positioning shown in "Step 3" and confirm that band arm plate sub assembly [7] can be rotated in the direction of the arrow as shown below.

5. [9] Exit guide arm assembly/ [10] Swing arm assembly

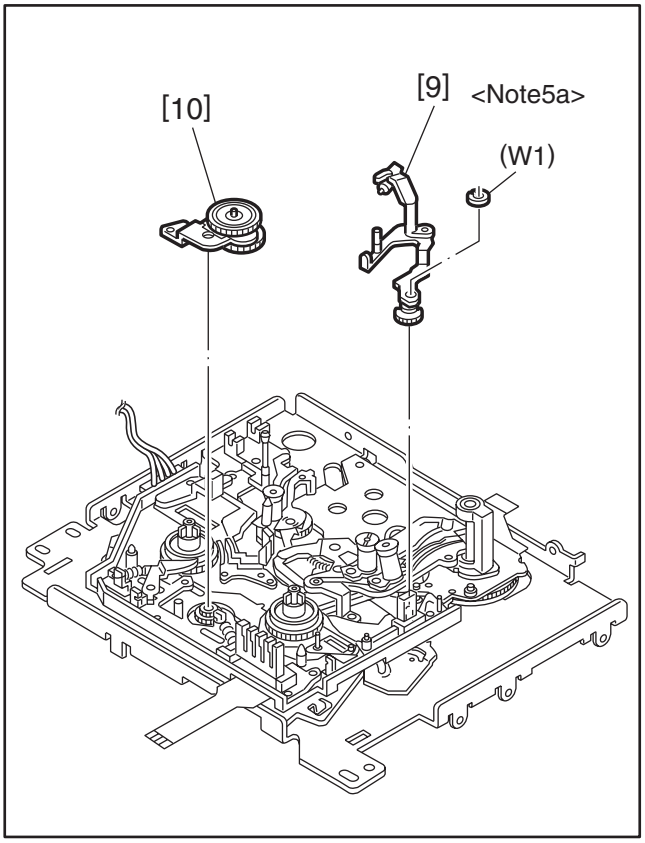


Fig.4-5-5

Note 5a:
Exit guide arm assembly phase alignment.

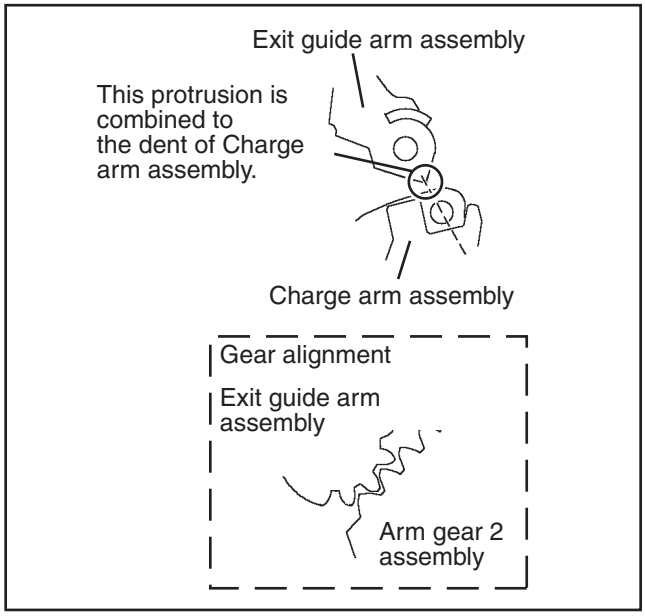

Exit guide arm assembly
This protrusion is combined to the dent of Charge arm assembly.
Charge arm assembly
Gear alignment
Exit guide arm assembly
Arm gear 2 assembly

Fig.4-5-5a

6. [11] Sub deck assembly/ [12] Main brake (Supply) assembly/[13] Main brake (Take up) assembly

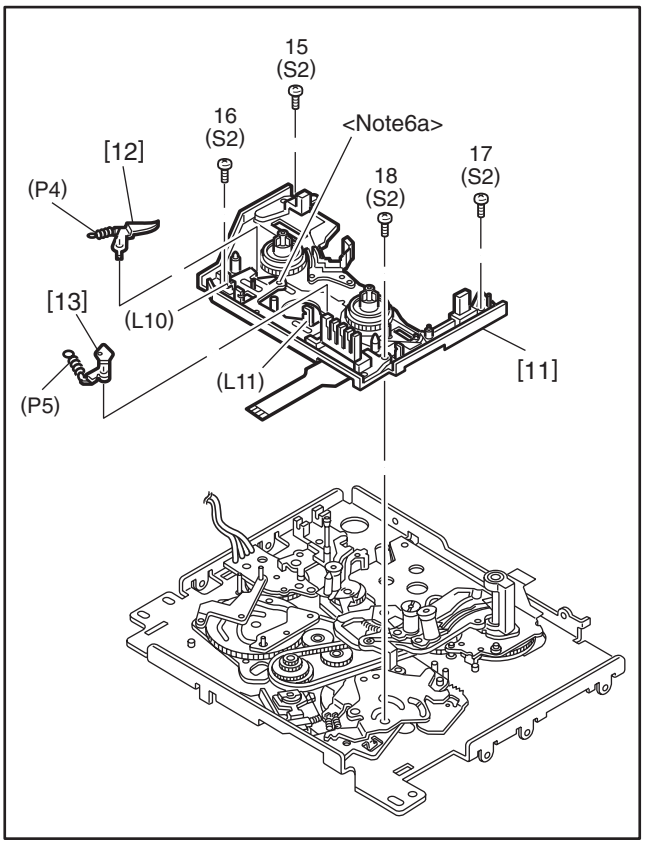


Fig.4-5-6

Note 6a:
When attaching the sub deck assembly, make sure to adjust the phase of the control plate.

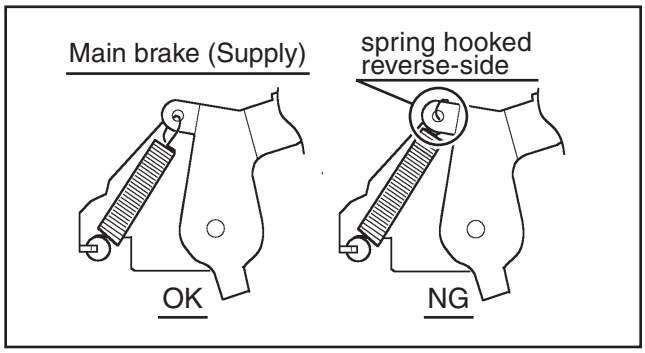


Fig.4-5-6a

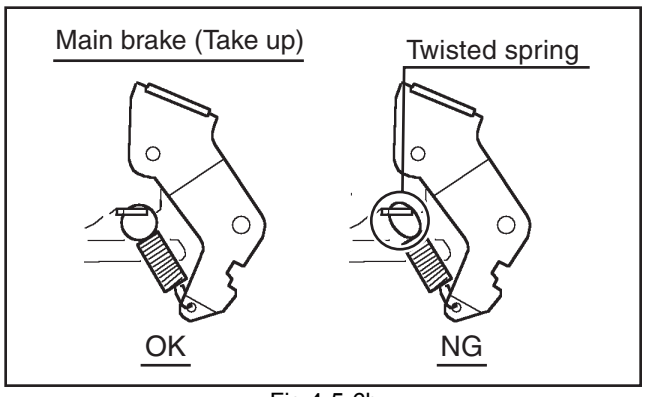


Fig.4-5-6b

7. [14] Reel disk assembly (Supply) / [15] Reel disk assembly (Take up) / [16] Prism / [17] Control plate

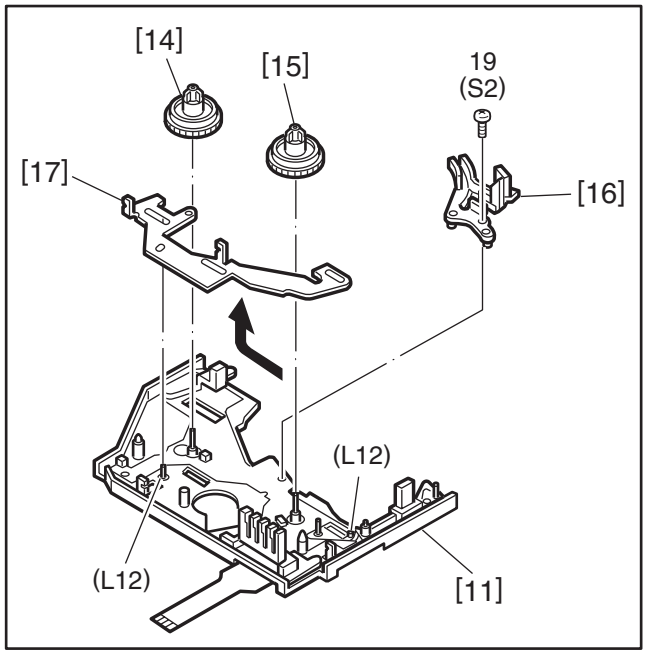


Fig.4-5-7

8. [18] Guide rail (Take up) assembly / [19] Guide rail (Supply) assembly / [20] Base plate assembly

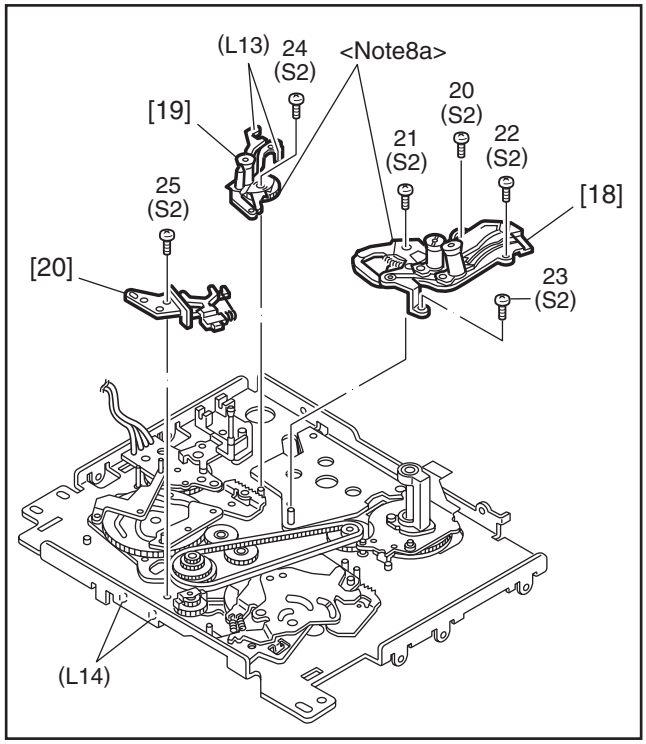


Fig.4-5-8

Note 8a:

When attaching, set the alignment markings of the two gears so that the markings face opposite to each other.

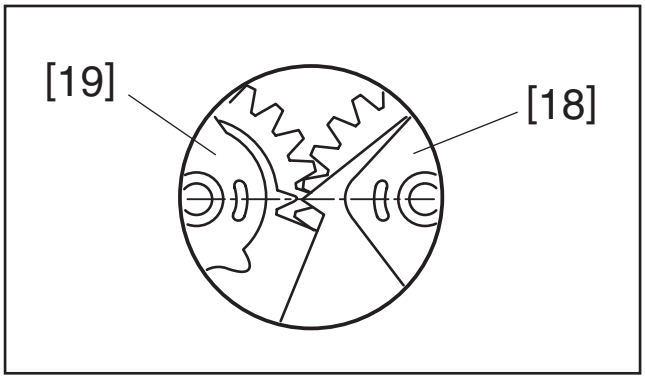


Fig.4-5-8a

9. [21] Ent. guide base assembly / [22] Worm wheel 2 / [23] Timing belt / [24] Center gear assembly

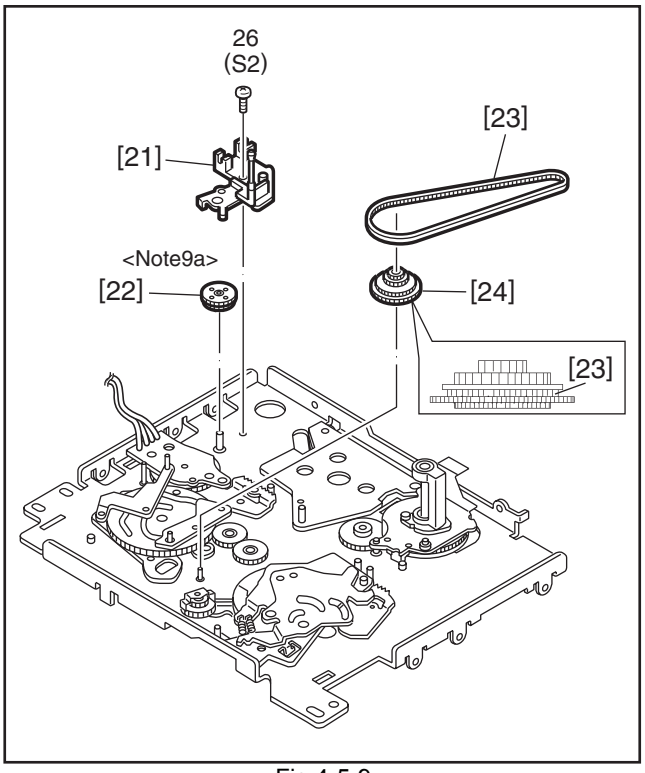
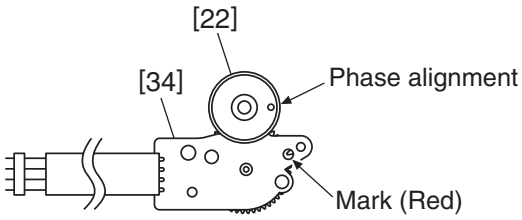


Fig.4-5-9

Note 9a:

How to attach the worm wheel 2 [22] .



Align the phase of the rotary encoder assembly [34], then attach it by aligning the phase hole of the mechanism assembly.

Fig.4-5-9a

10. [25] Reel drive pulley assembly / [26] Push plate/ [27] Clutch lock gear (2) / [28] Clutch lock gear (1)

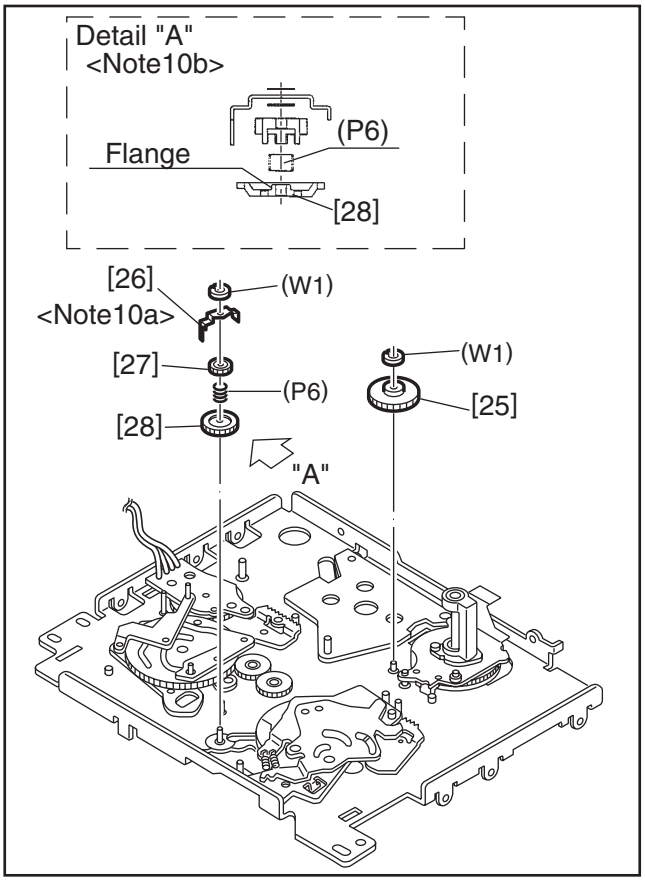


Fig.4-5-10

Note 10a:

After attaching (W1), confirm that pushes [26] from the top and hit to MAIN DECK. If there are a rattling or inclination in [26] , reconfirm the attachment of (P6). (Take care to the oblique insertion of (P6).)

Note 10b:

Attach (P6) straight for it which does not get on on the flange of [28]

11. [29] Tension control arm assembly/ [30] Brake control arm assembly / [31] Charge arm assembly

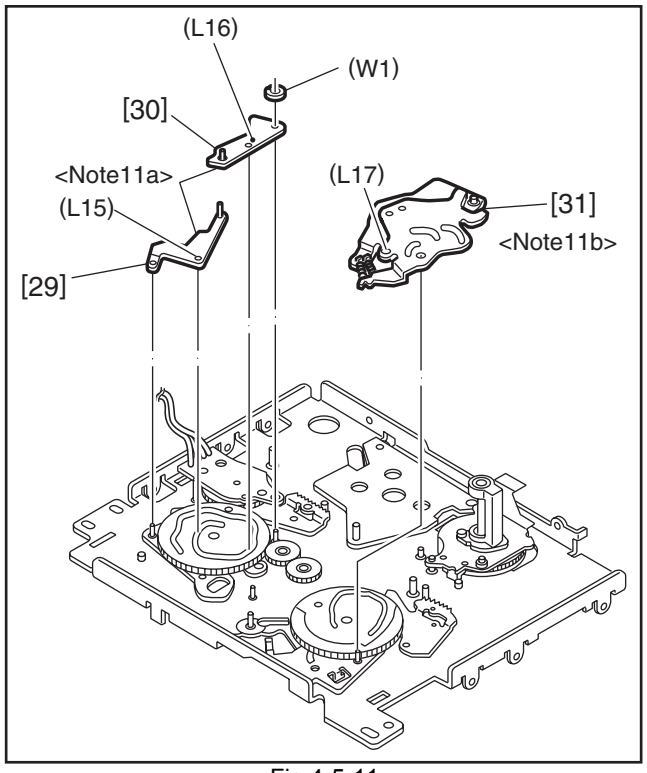


Fig.4-5-11

12. [32] Connect gear 2 / [33] Connect gear 2

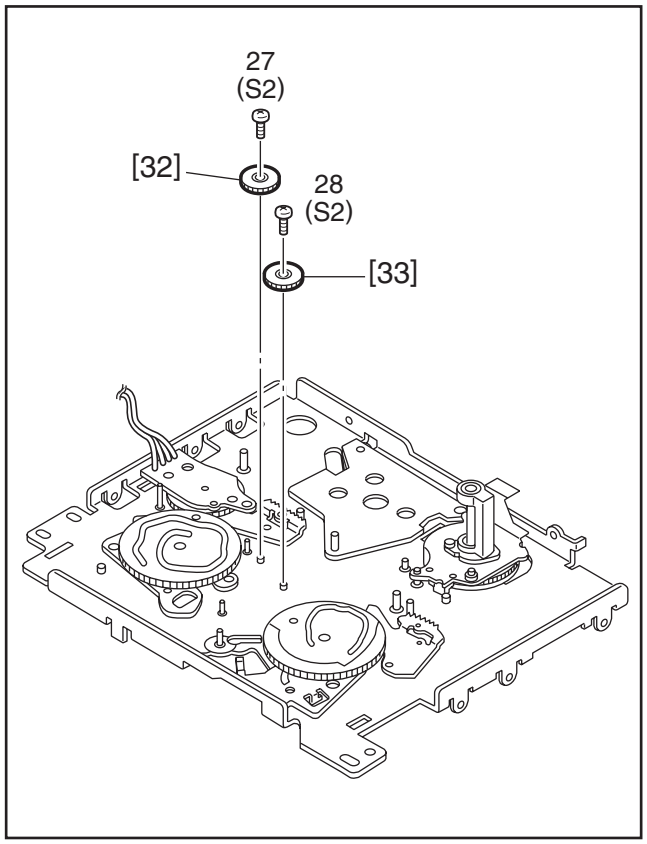
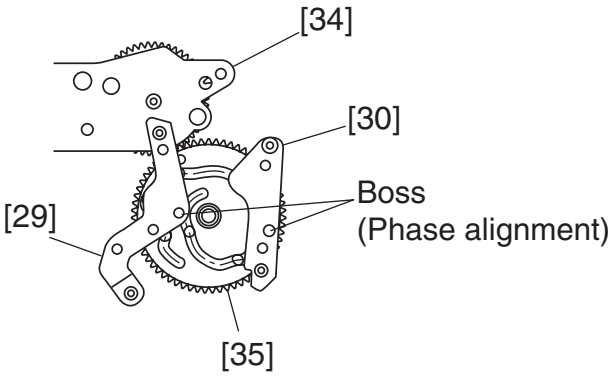


Fig.4-5-12

Note 11a:

How to attach the tension control arm assembly [29] / Brake control arm assembly [30] .

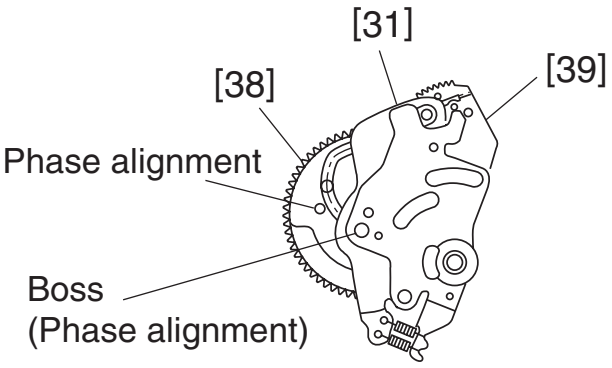


Align the phase of the main cam [35], then attach it by fitting the bosses into the cam slot.

Fig.4-5-11a

Note 11b:

How to attach the charge arm assembly [31]



Align the phase of the sub cam [38], then attach it by fitting the boss into the cam slot.

Fig.4-5-11b

13. [34] Rotary encoder assembly / [35] Main cam / [36] Arm gear 1 assembly / [37] Centering arm assembly

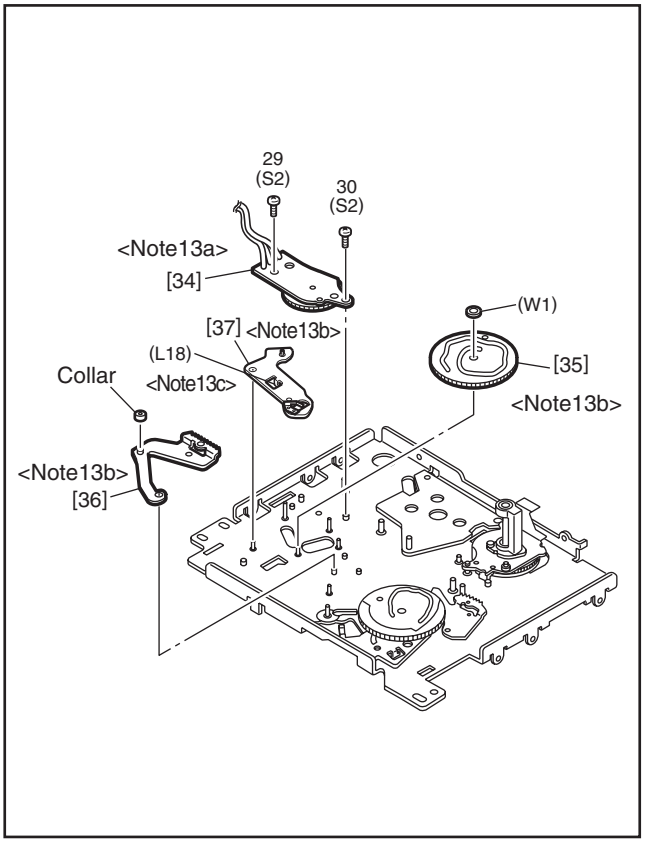
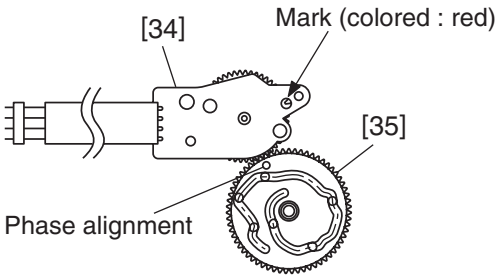


Fig.4-5-13

Note 13a:

How to attach the rotary encoder assembly [34].

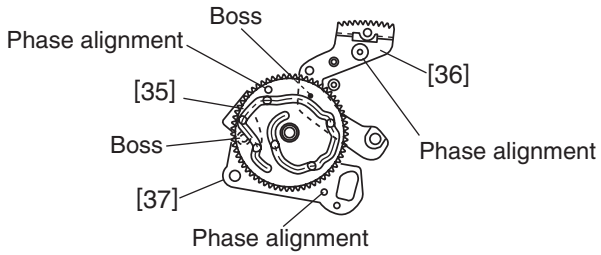


Align the phase of the main cam [35],then attach it by placing the (red) coloured markings (on 2 gear teeth) within the encircled area.

Fig.4-5-13a

Note 13b:

How to attach the main cam [35] .



Align the phases of the arm gear 1 assembly [36] and centering arm assembly [37],then attach the arm gear 1 assembly [36]/centering arm assembly [37] by fitting the bosses into the lower cam slot,and fit the slit washer.

Fig.4-5-13b

Note 13c:

How to remove the centering arm assembly [37] The center arm assembly is located behind the mechanism assembly when the phase is aligned correctly. The center arm assembly can be removed by displacing it in the direction of the arrow.

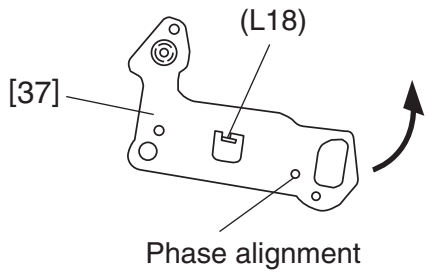


Fig.4-5-13c

14. [38] Sub cam / [39] Arm gear 2 assembly / [40] Clutch lock lever assembly

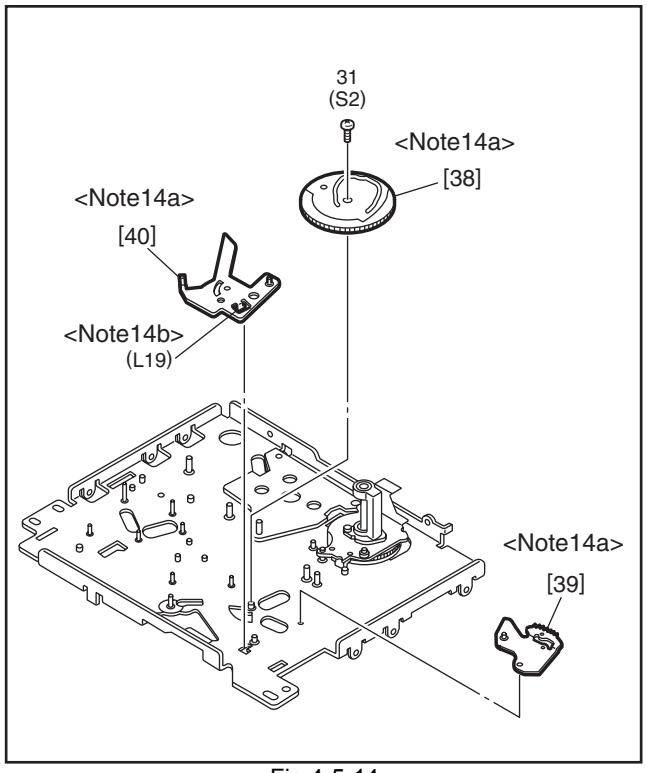


Fig.4-5-14

15. [41] Capstan motor / [42] Drum base deck

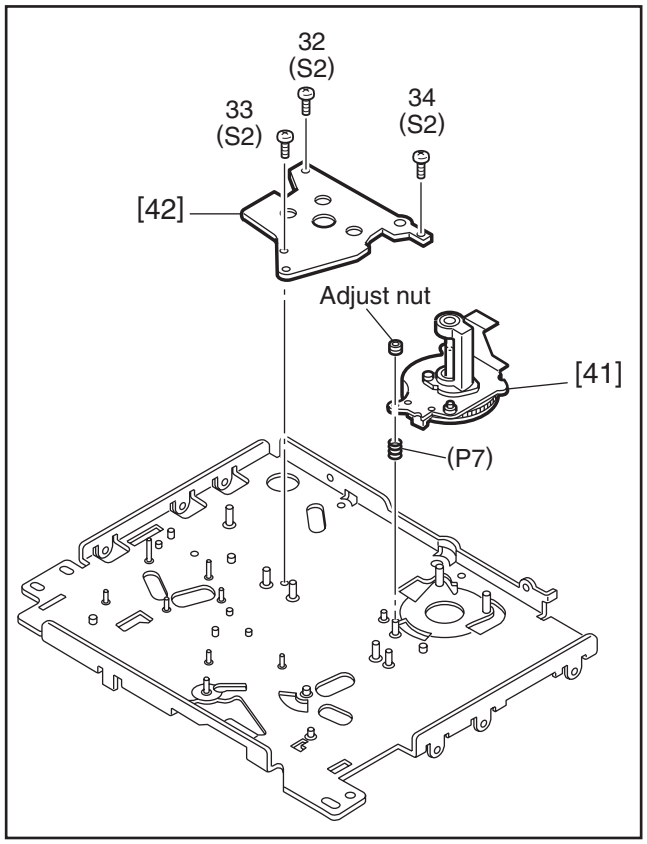
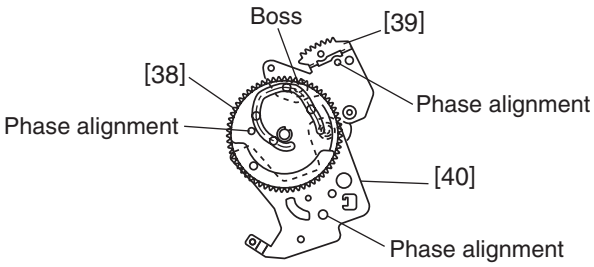


Fig.4-5-15

Note 14a:

How to attach the sub cam [38].



Align the phases of the arm gear 2 assembly [39] and clutch lock lever assembly [40],then attach them by fitting the boss into the lower cam slot and tighiten the screws.

Fig.4-5-14a

Note 14b:

How to remove the clutch lock lever assembly [40] L19 is located behind the mechanism assembly when the phase is aligned correctly. The clutch lock lever assembly can be removed by displacing it in the direction of the arrow.

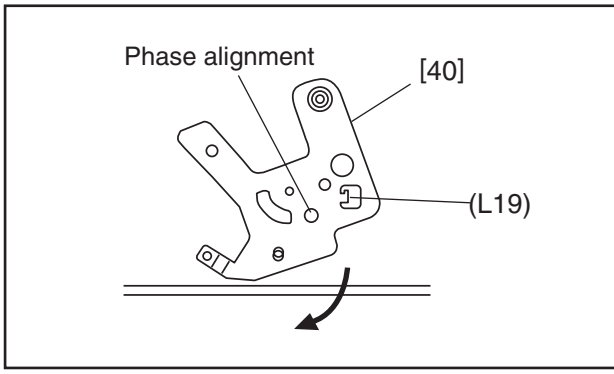


Fig.4-5-14b

4.6 List of procedures or disassembly

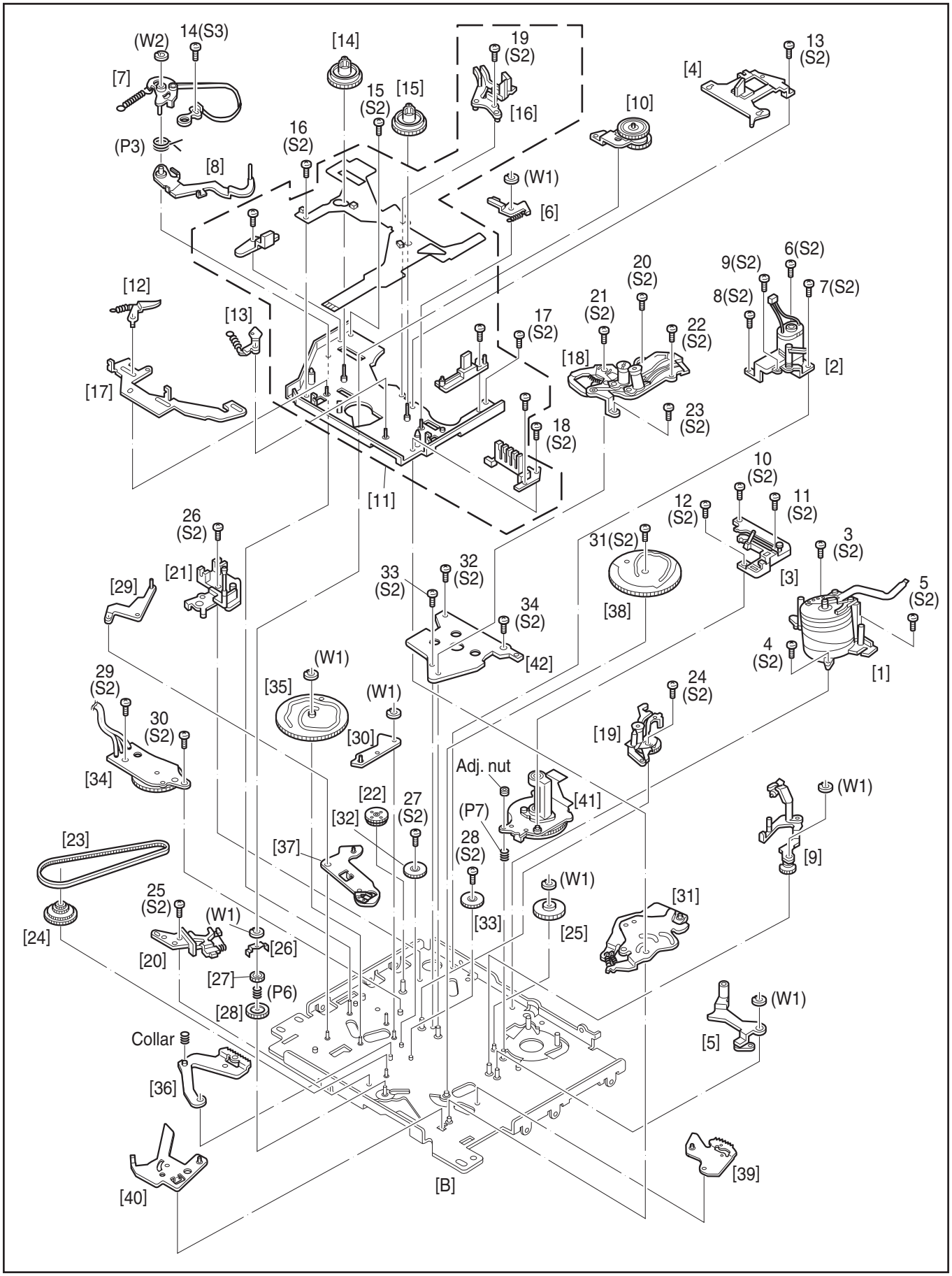


Fig.4-6-1

4.7 Mechanism phase check/adjustment

See Fig 4-7-1.

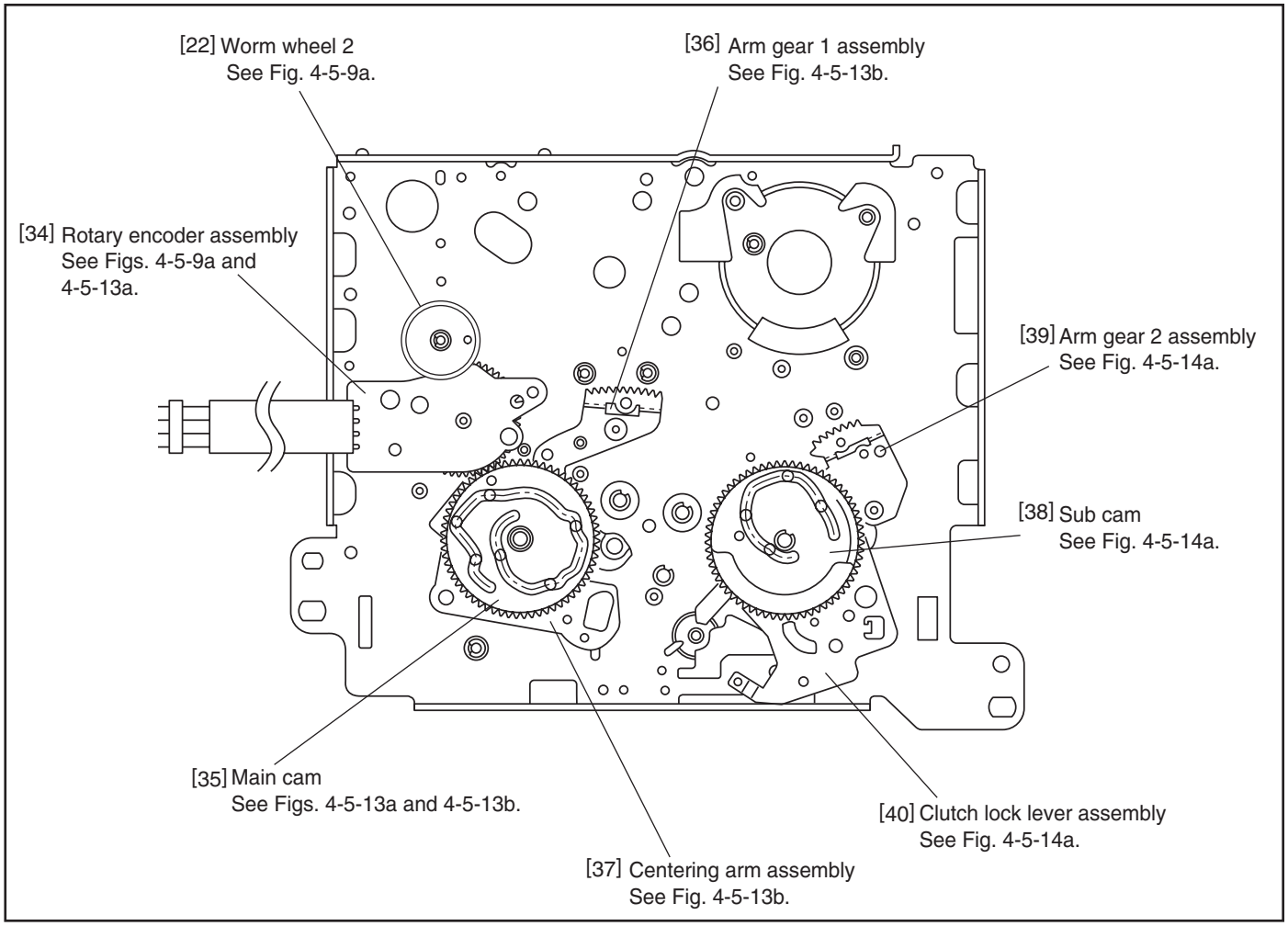


Fig.4-7-1

4.8 Mechanism disassembly/assembly sheet

Screw Management Table																			
Fig. No.	[A]		[1]			[2]				[3]			[4]	[7]	[11]				
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Type	S1	S1	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S3	S2	S2	S2	S2
Attachin																		
Ref. Fig.	4-5-1		4-5-2							4-5-3				4-5-4	4-5-6				

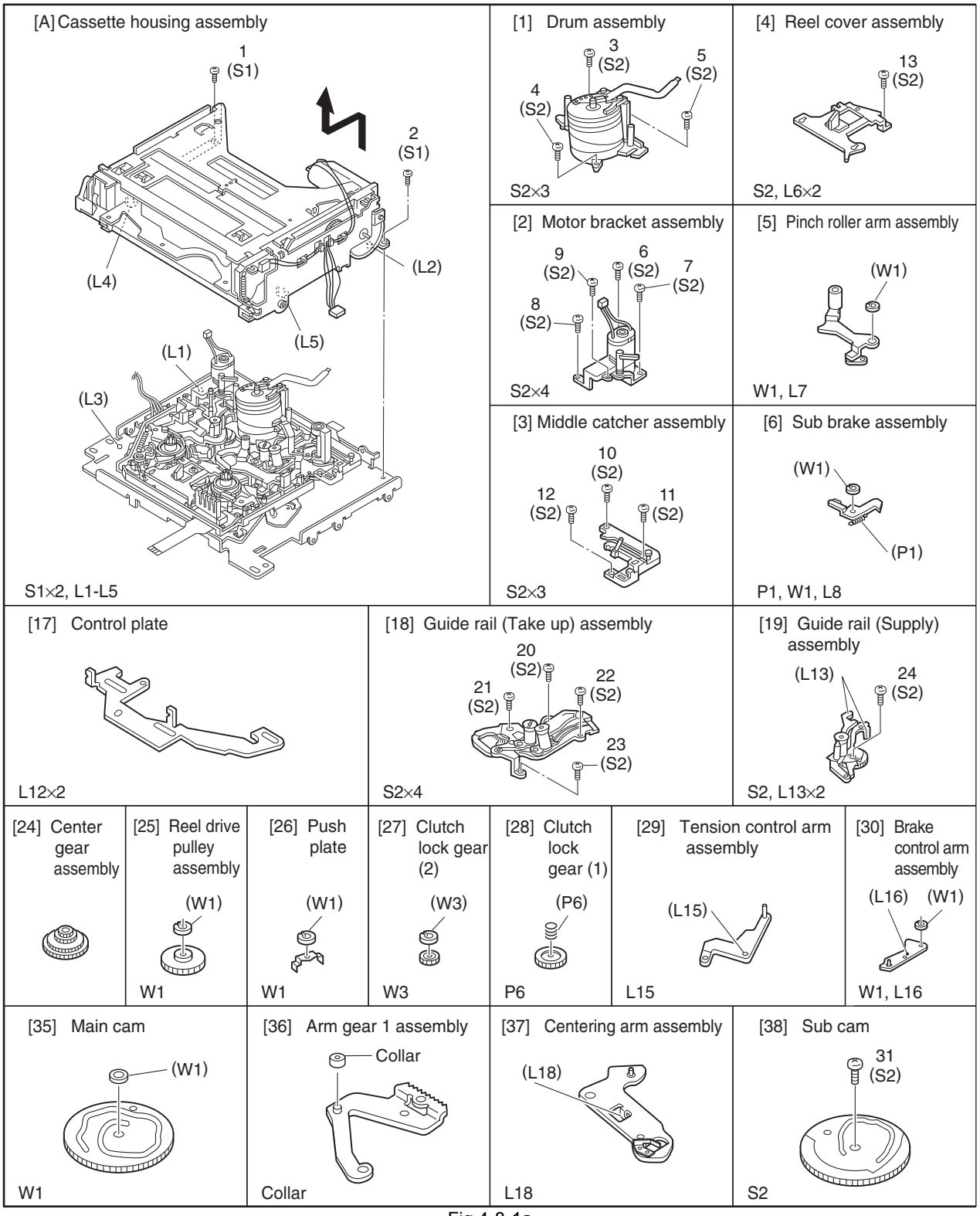
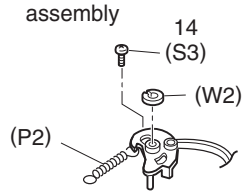


Fig.4-8-1a

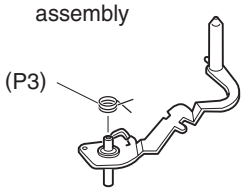
[16]	[18]					[19]	[20]	[21]	[32]	[33]	[34]		[38]	[42]		
19	20	21	22	23		24	25	26	27	28	29	30	31	32	33	34
S2	S2	S2	S2	S2		S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2
4-5-7	4-5-8							4-5-9	4-5-12		4-5-13		4-5-14	4-5-15		

[7] Band arm plate sub assembly



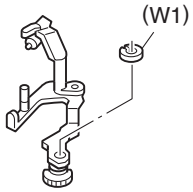
S3, P2, L9, W2

[8] Tension arm sub assembly



P3

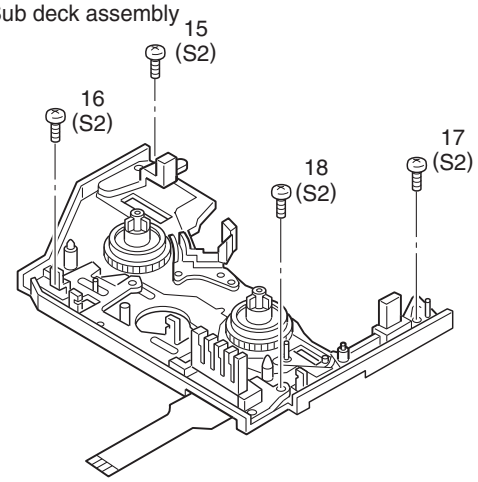
[9] Exit guide arm assembly



W1

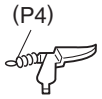
[10] Swing arm assembly

[11] Sub deck assembly



S2×4

[12] Main Brake(Supply) assembly



P4, L10

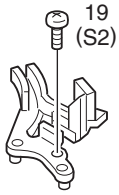
[13] Main Brake(Take up) assembly

P5, L11

[14] Reel disk assembly (Supply)

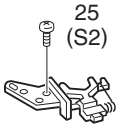
[15] Reel disk assembly (Take up)

[16] Prism



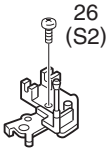
S2

[20] Base plate assembly



S2, L14×2

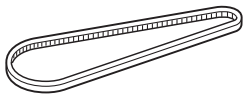
[21] Ent. guide base assembly



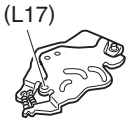
S2

[22] Worm wheel 2

[23] Timing belt

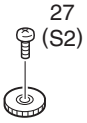


[31] Charge arm assembly



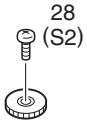
L17

[32] Connect gear 2



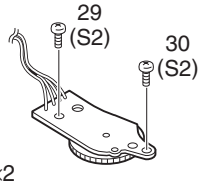
S2

[33] Connect gear 2



S2

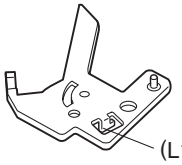
[34] Rotary encoder assembly



S2×2

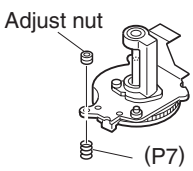
[39] Arm gear 2 assembly

[40] Clutch lock lever assembly



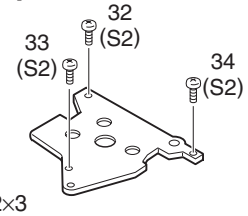
L19

[41] Capstan motor



Adjust nut, P7

[42] Drum base deck



S2×3

Fig.4-8-1b

4.9 Positioning the tension pole

See Fig.4-9-1.

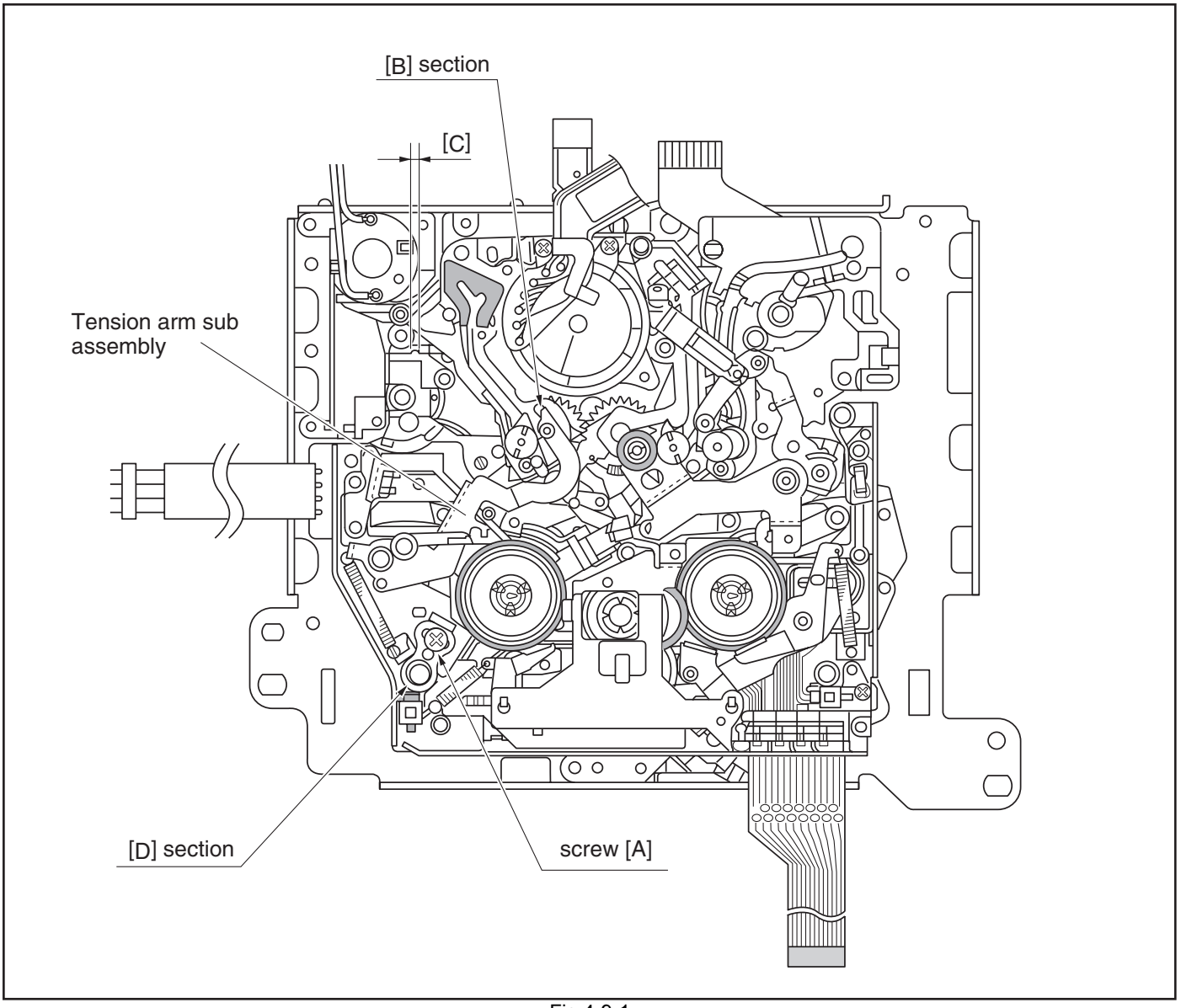


Fig.4-9-1

4.9.1 Adjustment Method

Note:

- **Remove the cassette housing assembly in advance.**
  (1) **Set the mechanism mode to the PLAY mode. (See 4.2.2 Mechanism modes)**
  (2) **Loosen a screw [A].**
  (3) **Check the location of the tip (section [B]) of the tension arm assembly to make sure that it is within area [C]. If it is located outside, turn part [D] to bring it within the specified area.**
  (4) **Tighten the screw [A].**

Note :

Tightening torque for the screw [A] : 0.06 N.m (0.6kgf.cm)

4.10 Compatibility and error rate adjustment

4.10.1 Preparation

Before disassembly and adjustment, back up the data stored in the EEPROM (IC1504 on the DV MAIN board) using the Service Support System Software (SSS software).

Table 4-10-1 shows the important service points for the compatibility and error rate adjustments.

	Linearity adjustment	PB Switching point adjustment	Error rate adjustmenmt
Drum replacement	Required Note 1	Required	Required
Transport part replacement	Required Note 1	Not	Check
Transport part (drum) repair	Required Note 1	Not	Check
IC4001(PRE/REC amp on DV MAIN board) replacement	Not	Not	Check
IC2001(PB. EQ on DV MAIN board) replacement	Not	Not	Required
DV MAIN board replacement Note 2	Not	Required	Required

Table 4-10-1

Note 1 :

- **The linearity adjustment is required only after servicing or replacing the drum or the take up/supply guide rail.**

Note 2 :

- **After replacing the DV MAIN board, write the original data in the EEPROM of the new board. If write communication is not possible, mount the original EEPROM on the new board.**

When adjustments of more than one item are required, use the following order for the adjustments.

4.10.3 Linearity adjustment
↓
4.10.4 PB switching point adjustment
↓
4.10.5 Error rate adjustment

4.10.2 Adjustment

The actual adjustment requires the following preparation.

4.10.2.1 Tools required for adjustment

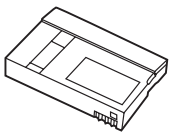
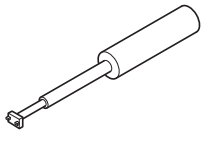
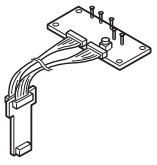
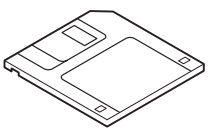
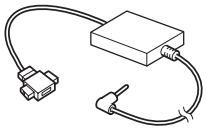
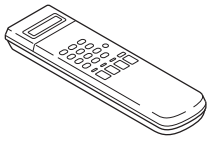
Alignment tape US : MC-1 PAL : MC-2	Guide driver YTU94085	Jig connector cable PTU94018B
		
SSS software PTU94016-5	PC cable US : QAM0099-002 PAL : QAM0099-005	Jig RCU PTU94023B
		

Fig.4-10-1

4.10.2.2 Procedure

(1) Take out the 8 screws, then remove the top cover. (See SECTION 3 DISASSEMBLY)
(2) Connect the jig connector cable to CN2001 on the DV MAIN board.

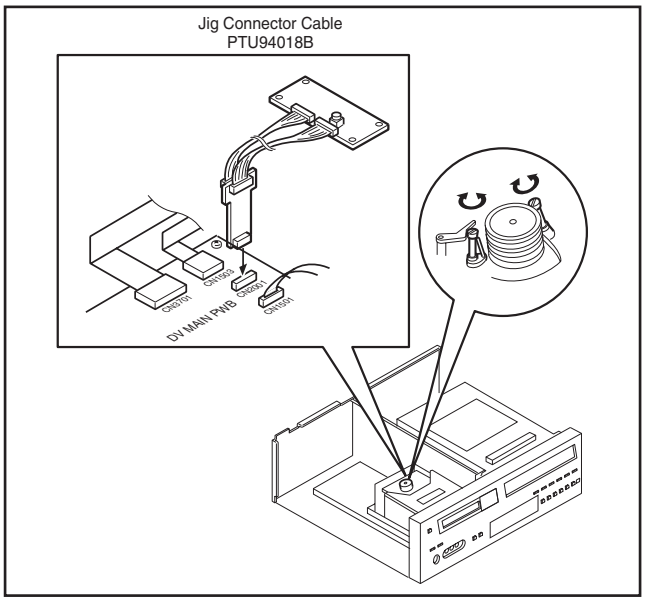


Fig.4-10-2

4.10.2.3 Setup for computer adjustment

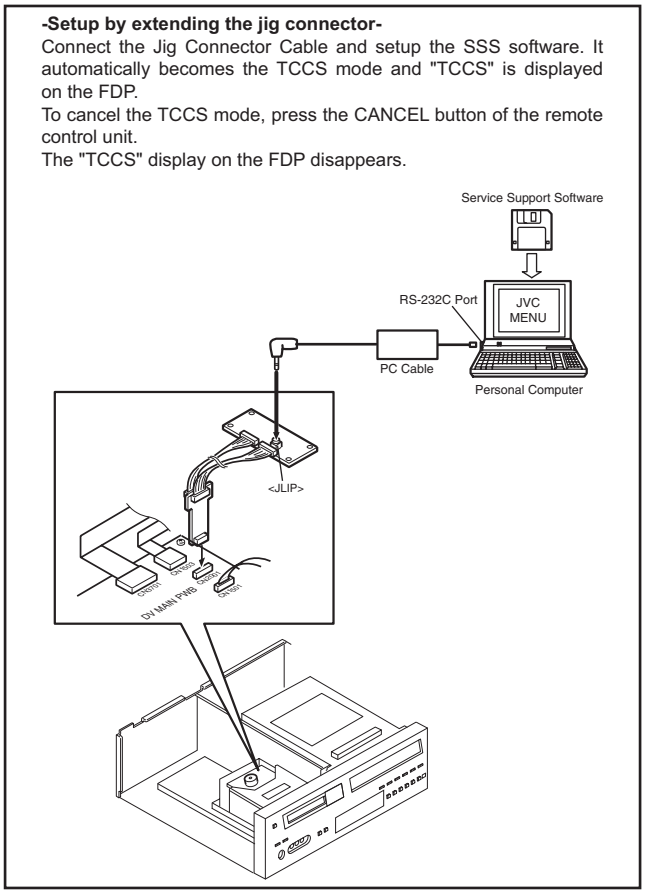

-Setup by extending the jig connector-
Connect the Jig Connector Cable and setup the SSS software. It automatically becomes the TCCS mode and "TCCS" is displayed on the FDP.
To cancel the TCCS mode, press the CANCEL button of the remote control unit.
The "TCCS" display on the FDP disappears.
Service Support Software
RS-232C Port
JVC MENU
PC Cable
Personal Computer
<JLIP>
DV MAIN PWB
CN4201
CN1503
CN4001
CN1501

Fig.4-10-3

4.10.3 Linearity adjustment

The following flowchart shows the linearity check/adjustment procedure.

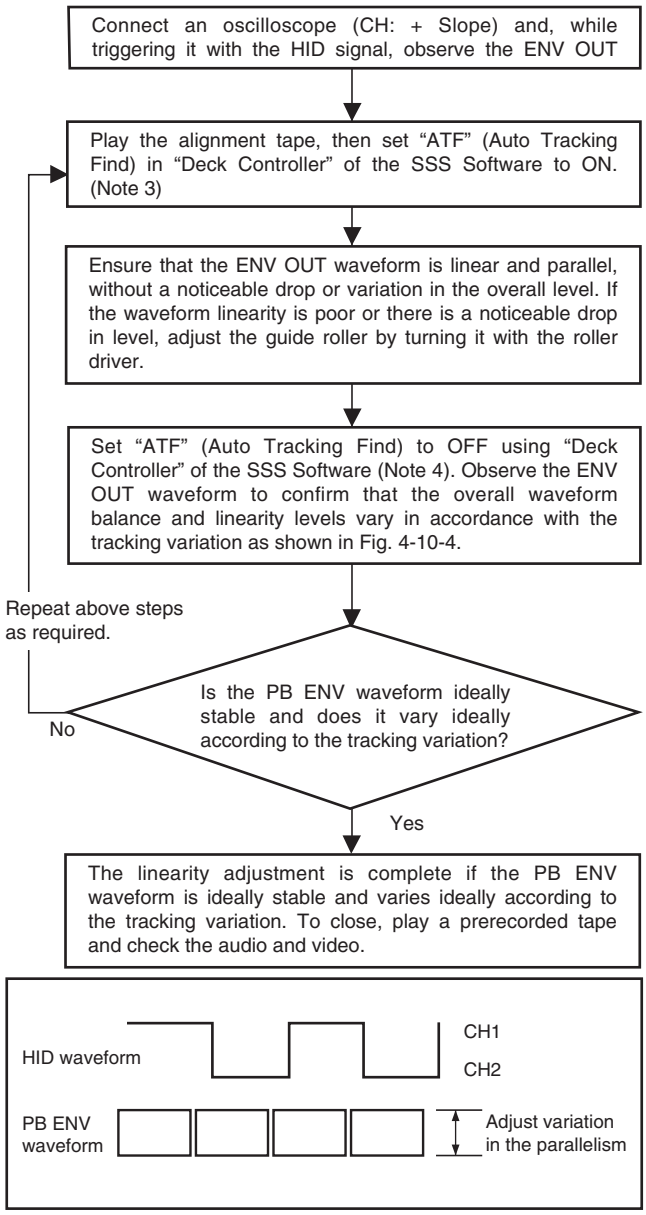

Connect an oscilloscope (CH: + Slope) and, while triggering it with the HID signal, observe the ENV OUT
Play the alignment tape, then set “ATF” (Auto Tracking Find) in “Deck Controller” of the SSS Software to ON. (Note 3)
Ensure that the ENV OUT waveform is linear and parallel, without a noticeable drop or variation in the overall level. If the waveform linearity is poor or there is a noticeable drop in level, adjust the guide roller by turning it with the roller driver.
Set “ATF” (Auto Tracking Find) to OFF using “Deck Controller” of the SSS Software (Note 4). Observe the ENV OUT waveform to confirm that the overall waveform balance and linearity levels vary in accordance with the tracking variation as shown in Fig. 4-10-4.
Repeat above steps as required.
Is the PB ENV waveform ideally stable and does it vary ideally according to the tracking variation?
No
Yes
The linearity adjustment is complete if the PB ENV waveform is ideally stable and varies ideally according to the tracking variation. To close, play a prerecorded tape and check the audio and video.
HID waveform
CH1
CH2
PB ENV waveform
Adjust variation in the parallelism

Fig.4-10-4

Note 3 :

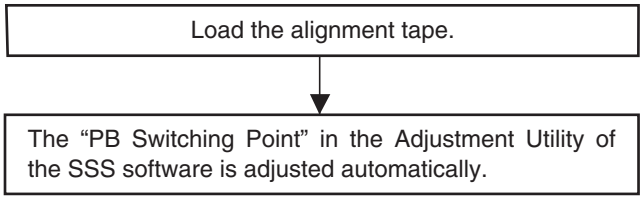
- **If ATF is turned off, the DV section performs tracking only of the speed system. Therefore, as time passes, the servo will be lost and the linearity adjustment will become difficult.**

Note 4 :

- **Since the speed servo function is active when ATF is off, there will be no problem even if the DVC ATF function is off, provided that it is for a few minutes.**

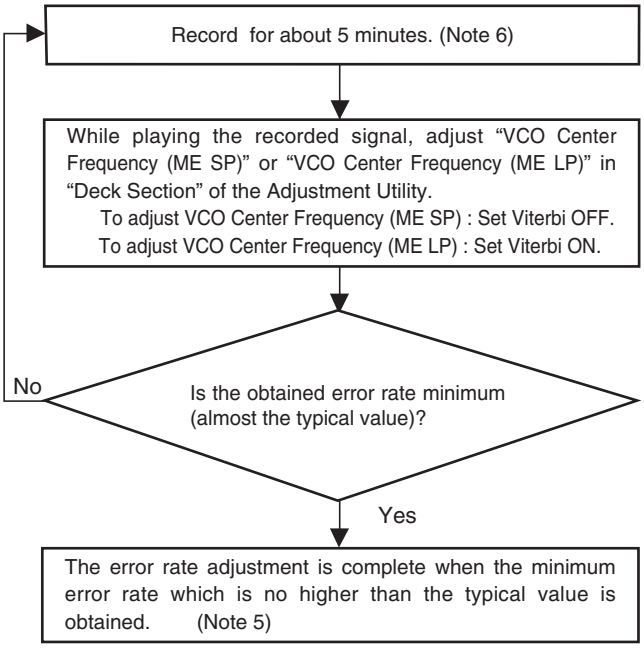
4.10.4 PB switching point adjustment

The following flowchart shows the PB switching point adjustment procedure.


Load the alignment tape.
The “PB Switching Point” in the Adjustment Utility of the SSS software is adjusted automatically.

4.10.5 Error rate adjustment

The following flowchart shows the error rate adjustment procedure.


Record for about 5 minutes. (Note 6)
While playing the recorded signal, adjust “VCO Center Frequency (ME SP)” or “VCO Center Frequency (ME LP)” in “Deck Section” of the Adjustment Utility.
To adjust VCO Center Frequency (ME SP) : Set Viterbi OFF.
To adjust VCO Center Frequency (ME LP) : Set Viterbi ON.
Is the obtained error rate minimum (almost the typical value)?
No
Yes
The error rate adjustment is complete when the minimum error rate which is no higher than the typical value is obtained. (Note 5)

Note 5 :

- **The "typical value" refers to the following:CH1 or CH2: < 498 ; with Viterbi OFF. Inter-channel difference: < 10 times between CH1 and CH2.**

Note 6 :

- **It is desirable to use a brand-new tape or an unused section of tape. This is to assure the adjustment reliability because using a damaged tape increases the error rate.**

4.10.6 Error rate measuring method

It is not necessary to use the error rate jig (YTU93083) or a frequency counter. The Service Support System Software displays the error rates of video CH1, CH2 and totals. When measuring the error rate of a channel, be sure to total the values of the video and the audio errors.

4.11 Electrical adjustment (DV SECTION)

4.11.1 Precautions

(1) The DV section of this model is based on a special adjustment method using a PC. However, ordinary adjustment is required only when the part listed below has been replaced. In this case, the adjustment should be performed by a service center equipped with the required facilities.

• **E2 PROM (IC1504 on DV main board)**

In case of trouble with the electrical circuitry, First identify the faulty position with a measuring tool as described below. Proceed to repair, replacement and/or adjustment only after the troubleshooting.

(2) When observing a chip TP, use an IC clip or similar tool to protect the chip against stress. When replacing a chip part (IC, particularly), remove solder completely before replacing. (This is to prevent separation of the pattern.)

(3) The connectors are fragile. Be careful when plugging or unplugging a wire.

4.11.2 Equipment required for adjustment

- Personal computer (Windows compatible)
- Color monitor
- Oscilloscope (2-CH, 100 MHz or more)
- Frequency counter

4.11.3 Tools required for adjustments

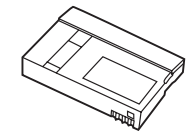
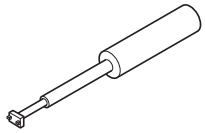
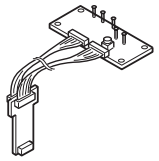
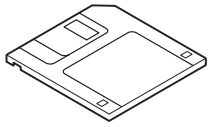
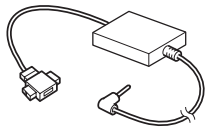
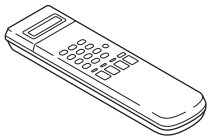
Alignment tape US : MC-1 PAL : MC-2	Guide driver YTU94085	Jig connector cable PTU94018B
		
SSS software PTU94016-5	PC cable US : QAM0099-002 PAL : QAM0099-005	Jig RCU PTU94023B
		

Fig.4-11-1

4.11.4 Setup

1. Setup for computer adjustment

- Setup by extending the jig connector -

-Setup by extending the jig connector-

Connect the Jig Connector Cable and setup the SSS software. It automatically becomes the TCCS mode and "TCCS" is displayed on the FDP.

To cancel the TCCS mode, press the CANCEL button of the remote control unit.

The "TCCS" display on the FDP disappears.

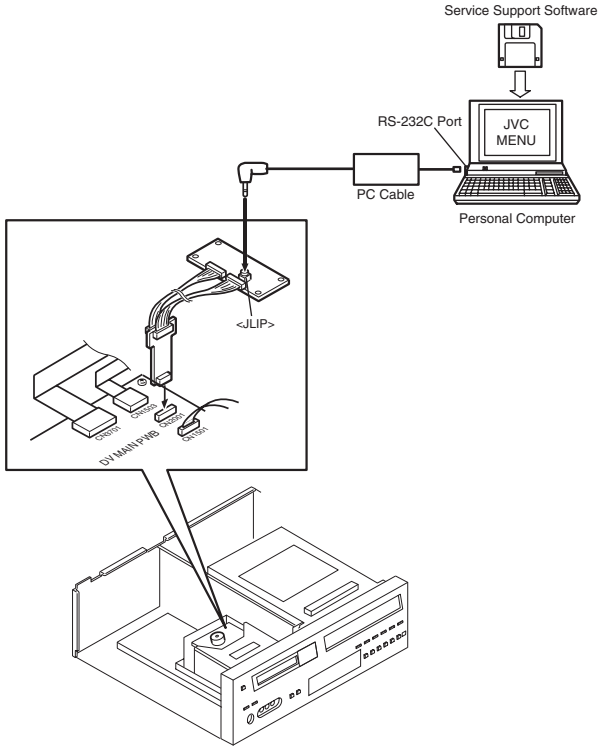


Fig.4-11-2

4.12 Electrical adjustment (DVD SECTION)

Note:

The following adjustment procedures are not only necessary after replacement of consumable mechanical parts or board assemblies, but are also provided as references to be referred to when servicing the electrical circuitry.
In case of trouble with the electrical circuitry, always begin a service by identifying the defective points by using the measuring instruments as described in the following electrical adjustment procedures. After this, proceed to the repair, replacement and/or adjustment. If the required measuring instruments are not available in the field, do not change the adjustment parts (variable resistor, etc.) carelessly.

4.12.1 DVD Video circuit

Note:

- **when perform these adjustments, set the unit to DVD mode.(DVD lamp lights up)**

4.12.1.1 EE COMPONENT Y level

Signal	(A)	• Internal color bar
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• COMPONENT Y terminal
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “43-95” • "ADJUST01 : **" • Jig code “43-21” • Jig code “43-18” or “43-19” (Channel +/-) • Jig code “43-3C”
Specified value	(G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the Y OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the Y OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

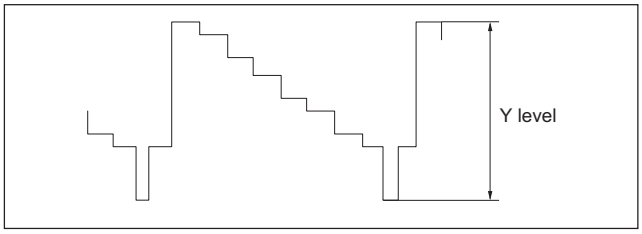


Fig.4-12-1 EE componet Y level

4.12.1.2 EE Y level

Signal	(A1) (A2)	• Ext. input • Color (colour) bar signal
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• Y OUT (S terminal)
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “43-95” • "ADJUST02 : **" • Jig code “43-22” • Jig code “43-18” or “43-19” (Channel +/-) • Jig code “43-3C”
Specified value	(G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the Y OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the Y OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

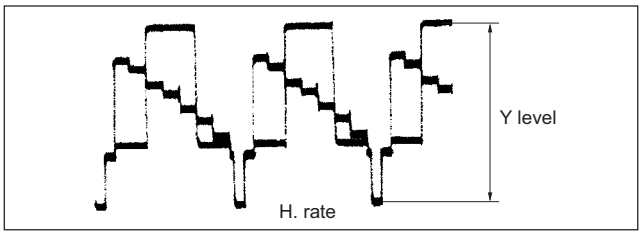


Fig.4-12-2 EE Y level

4.12.1.3 EE COMPONENT PB/CB level

Signal	(A)	• Internal color bar
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• COMPONENT PB/CB terminal
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “43-95” • "ADJUST06 : **" • Jig code “43-26” • Jig code “43-18” or “43-19” (Channel +/-) • Jig code “43-3C”
Specified value	(G)	• 0.70 ± 0.02 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the CB OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the CB level of the CB OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

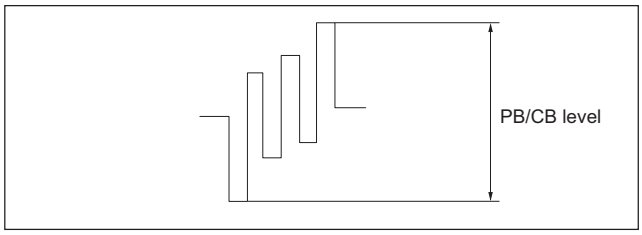


Fig.4-12-3 EE component PB/CB level

4.12.2 Syscon circuit

Notes:

- **When perform this adjustment, remove the Mechanism assembly.**

4.12.2.1 Timer clock

Signal	(A)	• No signal
Mode	(B)	• EE
Equipment	(C)	• Frequency counter
Measuring point	(D1)	• IC3001 pin 61
	(D2)	• IC3001 pin 24
	(D3)	• C3026 + and -
Adjustment part	(F)	• C3025 (TIMER CLOCK)
Specified value	(G)	• 1024.008 ± 0.001 Hz (976.5549 ± 0.0010 usec)

(1) Connect the frequency counter to the measuring point (D1).
(2) Connect the short wire between the short point (D2) and Vcc (5V).
(3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the Syscon.
(4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
(5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

SECTION 5
TROUBLESHOOTING

5.1 Manually removing the cassette tape

If a loaded cassette tape cannot be ejected due to a failure in the electrical circuitry, take the cassette tape out using the following procedure. However, this method consists of a forced driving of the loading motor. Therefore, the following description assumes that there is no trouble in the mechanism operations.

(1) Unplug the power plug from the power outlet, then remove the top cover.

(2) Apply 3 V DC to the electrodes (Red wire: + pole. Brown wire: - pole) on the upper part of the loading motor to perform the unloading operation so that the pole base assemblies are returned on the inner side of the tape. At this time, the exit guide arm assembly should return toward the drum assembly and the mechanism should enter the C-IN mode. As the tape is left without winding, be careful not to damage the tape or leave grease on it.

(3) If the tape is slack, wind it up by turning the shaft on the top-side of the capstan motor in the direction of the arrow using a pointed tool (chip IC replacement jig).This operation may be difficult because the shaft is located below the housing motor of the cassette housing assembly. Be careful not to damage parts during it.

(4) After confirming that the tape is fully wound up, take out the cassette tape by turning the gear of the cassette housing assembly in the direction of the arrow.

Note :

- **After ejecting the tape, check that grease or similar foreign material is not attached to the wound tape. Also perform similar checking for the mechanism assembly, particularly the tape transport system.**

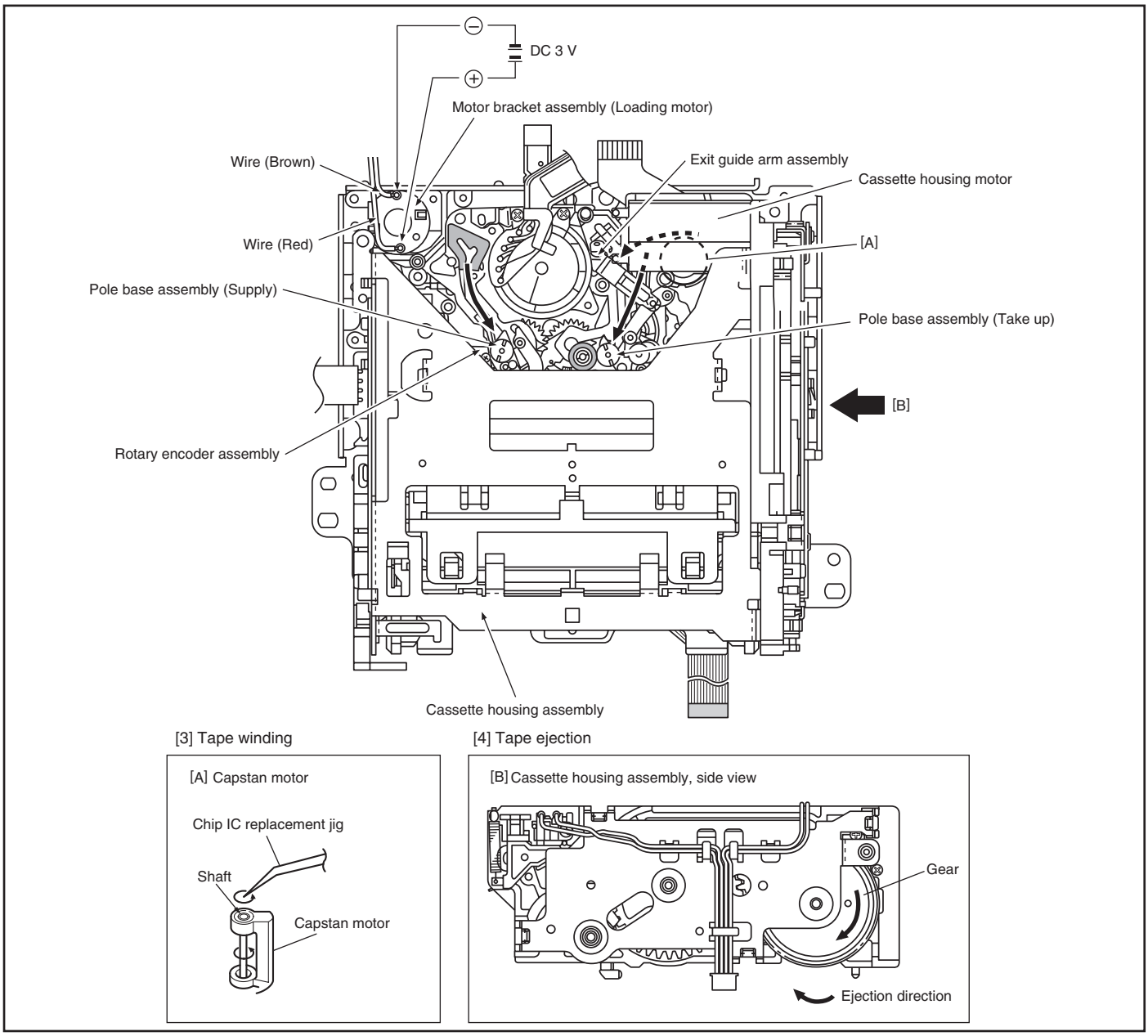


Fig.5-1a

5.2 Manually removing the disk(DVD/CD)

If you cannot remove the disk which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

5.2.1 Method 1

(1) AC Plug is pulled out at once and inserted again.
(2) It is displayed on FDP as "LOADING", and while it blinks, pushing the OPEN/CLOSE button is continued.
(3) After a while, a tray opens (About 20 seconds).
(4) After removed a disk, press the OPEN/CLOSE button again to close the tray.
(5) The "LOADING" blink display of FDP disappears and it will be in a standby mode.
(6) If the POWER button is pushed, it will usually be operating.

5.2.2 Method 2

(1) Unplug the ACpower cord from the AC outlet.
(2) Remove the top cover and front panel assembly.
(Refer to the disassembly procedure and perform the disassembly of the major parts before removing)
(3) Pass a thin wire through a hole in the DVD unit.
(4) The disc tray comes out slightly. Take out the disc tray manually.(See Fig.5-2a)

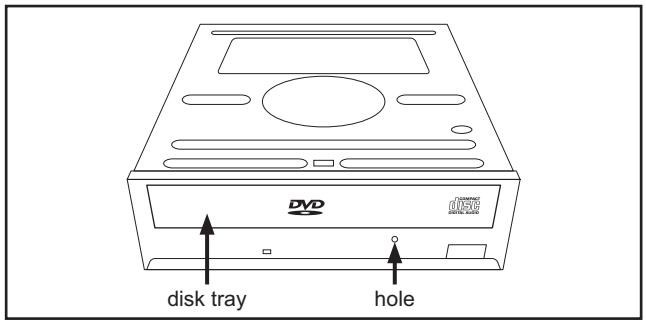


Fig.5-2a

5.3 Emergency display function (DV SECTION)

This unit saves details of the last emergency as the EMG history and allows the status of the unit and the mechanism each emergency to be shown both on the display and as OSD information. When using the emergency function, it is required to set the unit to the Jig RCU mode.

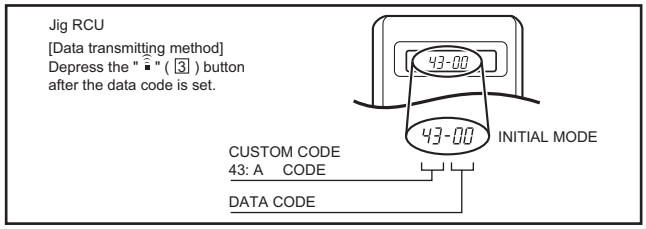


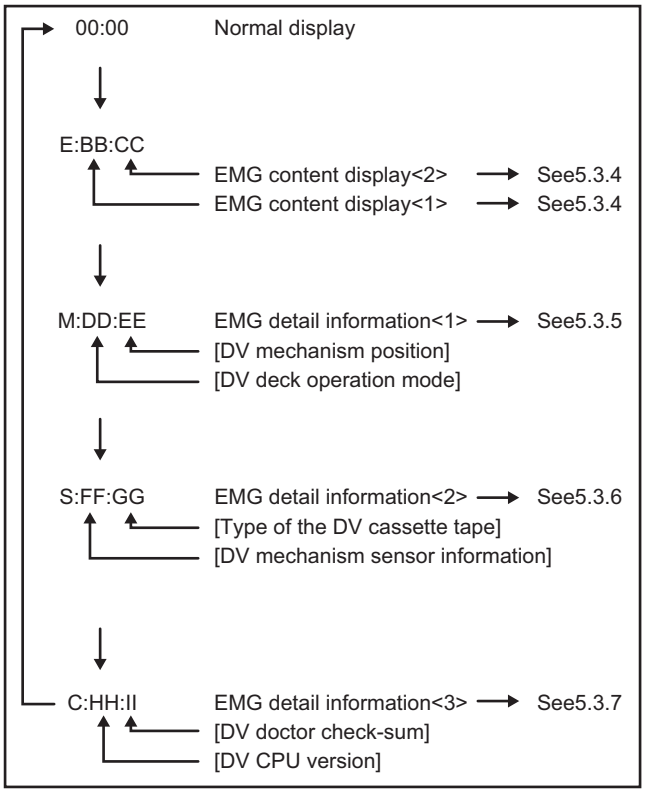
Fig.5-3a Jig RCU [PTU94023B]

5.3.1 Displaying the EMG information

The EMG detail of information can be displayed by transmitting the code "43-59" from the Jig RCU.

Note:

- **Press DV/HDD/DVD on the unit repeatedly or DV on the remote so that the DV lamp lights up on the unit.**
- **The EMG detail information < 1 >< 2 > show the information on the latest EMG.**
It becomes " - - : - - : - - " when there is no latest EMG record.



EMG display of FDP display mode

(1) Transmit the code “43-59” from the Jig RCU.
The FDP shows the EMG content in the form of “E:**:**”.

<Example 1> E : 00 : 80
EMG content display(2)
EMG content display(1)

<Example 2> E : - - : - - ← No EMG record

(2) Transmit the code "43-59" from the Jig RCU again.
The FDP shows the EMG detail information < 1 > in the form of "DD" and "EE".
DD : DV deck operation mode at the moment of EMG
EE : DV mechanism mode position at the moment of EMG

(3) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 2 > in the form of "FF" and "GG".
FF : DV mechanism sensor information
GG: Type of the DV cassette tape

(4) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 3 > in the form of "HH" and "II".
HH : DV CPU version information
II : DV doctor check-sum

(5) Transmit the code “43-59” from the Jig RCU once again to reset the display.

5.3.2 Clearing the EMG history

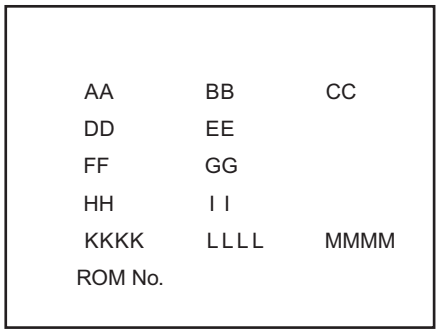
(1) Display the EMG history.
(2) Transmit the code “43-36” from the Jig RCU.
(3) Reset the EMG display.

5.3.3 Details of the OSD display in the EMG display mode

During the EMG display, the OSD shows the data on the deck mode, etc. The details of the display contents are as follows.

Notes:

- **The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information < 1 >.**



AA : Key code (JVC code)
BB : EMG content display < 1 >
CC : EMG content display < 2 >
DD : DV deck operation mode (See EMG detail information < 1 >)
EE : DV mechanism position (See EMG detail information < 1 >)
FF : Dv mechanism sensor information (See EMG detail information < 2 >)
GG : Type of DV cassette tape (See EMG detail information < 2 >)
HH : DV CPU version
I I : DV doctor check-sum
KKKK : General data display area
LLLL : General data display area
MMMM : General data display area

5.3.4 EMG content description

5.3.4.1 EMG content display < 1 >(BB)

FDP DISPLAY	EMG MODE	CONTENT	CAUSE
E : 41 : 00	Mechanism Mode Transition Failure (Loading)	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, [E : 41 : 00] is identified and the power is switched OFF.	1. The mechanism is locked in the middle of the mode transition. 2. The mechanism overruns the encoder position during the mode transition, and is locked at the mechanism loading end. 3. Power is not supplied to the loading MDA.
E : 42 : 00	Mechanism Mode Transition Failure (Unloading)	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the unloading direction, [E : 42 : 00] is identified and the power is switched OFF.	1. The mechanism is locked in the middle of the mode transition. 2. The mechanism overruns the encoder position during the mode transition, and is locked at the mechanism loading end. 3. Power is not supplied to the loading MDA.
E : 04 : 00	Take Up Reel FG	When the take-up reel pulse has not been generated for more than 3 seconds in the capstan rotating mode,[E : 04 : 00] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The take-up reel pulse is not generated in the FWD transport modes (PLAY/FWD SEARCH/FF, etc.) because; 1) The idler gear is not meshed with the take-up reel gear. 2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to t
E : 08 : 00	Supply Reel FG	When the supply reel pulse has not been generated for more than 3 seconds in the capstan rotating mode, [E : 08 : 00] is identified and the pinch rollers are turned off and stopped, and the power is turned off.	1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF,etc.) because; 1) A cassette with broken tape is inserted, and PLAY/FWD SEARCH/FF are carried out. 2) A mechanical factor caused tape slack inside/ outside the supply
E : 10 : 00	Drum FG	When the drum FG pulse has not been input for more than 4 seconds in the drum rotating mode, [E : 10 : 00] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The drum could not start or the drum rotation has stopped due to too large load on the tape, because; 1) The tape tension is abnormally high. 2) The tape is damaged or a foreign object (grease, etc.) adheres to the tape. 2. The drum FG pulse did not re
E : 20 : 00	Capstan FG	When the capstan FG pulse has not been generated for more than 2 seconds in the capstan rotating mode, [E : 20 : 00] is identified, the pinch rollers are turned off and stopped.	1. The capstan could not start or the capstan rotation has stopped due to too large load on the tape, because; 1) The tape tension is abnormally high (mechanical lock); 2) The tape is damaged or a foreign object (grease, etc.) is adhered to the tape (occu

5.3.4.2 EMG content display < 2 >(CC)

FDP DISPLAY	EMG MODE	CONTENT	CAUSE
E : 00 : A0	Housing Motor Operation Failure (Cassette ejection)	If the operation has not been completed 3 seconds after the cassette housing started the cassette ejection operation, [E : 00 : A0] is identified, the cassette is taken in, and the mode is switched to STOP the pinch roller OFF.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing facto
E : 00 : C0	Housing Motor Operation Failure (Cassette insertion)	If the operation has not been completed 3 seconds after the cassette insertion, [E : 00 : C0]n is identified, and the cassette is ejected.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing facto

5.3.5 EMG detail information < 1 >

The status (electrical operation mode) of the unit and the status (mechanism operation mode/mechanism position) of the mechanism in the latest EMG can be confirmed based on the figure in EMG detail information < 1 > .

[FDP/OSD display] (DD, EE)

DD : DV deck operation mode at the moment of EMG

EE : DV mechanism position at the moment of EMG

DD : DV deck operation mode

Display	Deck operation mode	Display	Deck operation mode
00	UNLOADING STOP	1a	POWER OFF
01	CASSETTE EJECT	1b	REC LOCK
02	LOADING STOP	1c	1ST REC
03	PLAY (Normal playback)	1d	LOCK
04	STILL	1e	REC
05	FF	3a	POWER OFF REQUEST
06	REW	5a	POWER OFF REQUEST2
07	SEARCH FWD	aa	WAIT
08	SEARCH REWIND	ba	NO DATA
09	FWD SLOW	7F	FWD SEARCH(high speed)
0a	REV SLOW	6F	FWD SEARCH(middle speed)
0b	AUDIO DUB	5F	FWD SEARCH(low speed)
0c	AUDIO DUB PAUSE	4F	FWD PLAY
0d	RETAKE FF	3F	FWD LINEAR SLOW
0e	RETAKE REW	2F	FWD INTERMITTENT SLOW
10	REHEARSAL UNLOADING STOP	1F	FWD FRAME ADVANCE
11	REHEARSAL EJECT	0F	STILL
12	REHEARSAL LOADING STOP	FF	REV FRAME ADVANCE
13	REC	EF	REV INTERMITTENT SLOW
14	REC PAUSE	DF	REV LINEAR SLOW
15	DV REC	CF	REV PLAY
16	DV REC PAUSE	BF	REV SEARCH(low speed)
17	VIDEO INSERT	AF	REV SEARCH(middle speed)
18	VIDEO INSERT PAUSE	9F	REV SEARCH(high speed)
19	SOFT PAUSE		

EE : DV mechanism position

Display	DV mechanism position	Display	DV mechanism position
0	Cassette being inserted	8	Capstan REV
1	Intermodal position	9	Intermodal position
2	Short FF	0A	Stop
3	Intermodal position	0B	Intermodal position
4	Loading end	0C	FF/REW
5	Intermodal position	0D	Intermodal position
6	Capstan FWD	0E	Mechanism being initialized
7	Intermodal position		

5.3.6 EMG detail information < 2 >

FF : DV mechanism sensor information

Display	DV mechanism sensor information	Display	DV mechanism sensor information
bit7	Tape end	bit3	Tape ID detect
bit6	Tape start	bit2	Tape exist
bit5	Rec safety switch		

Note:

The display of DV mechanism sensor information differs according to the operation mode.

GG : Type of DV cassette tape (bit3, bit2)

Display	DV mechanism sensor information	Display	DV mechanism sensor information
00	MP type	10	Not used
01	Cleaning tape	11	ME type

5.3.7 EMG detail information < 3 >

HH : DV CPU version

DV SYSCON CPU version is displayed.

II : DV doctor check-sum

It is not usually used.

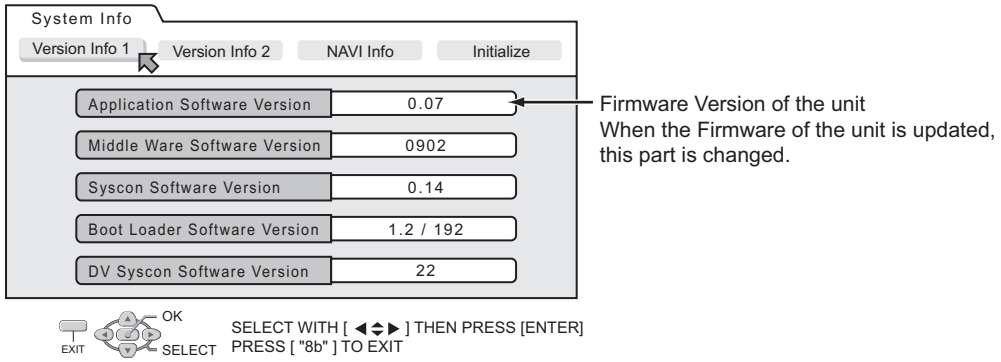
5.4 Display function of DVD section

5.4.1 Displaying SYSTEM INFO

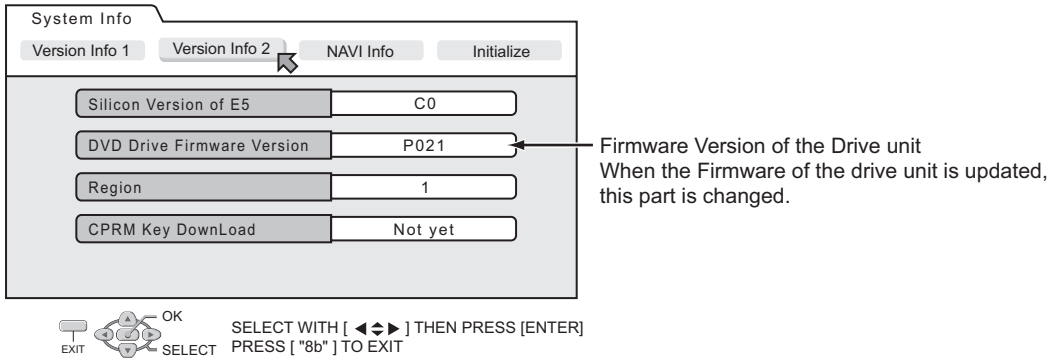
SYSTEM INFO contains information on firmware version of the unit and the mechanism drive, and an initialize execution menu.

(1) Set the unit to the Jig RCU mode.
(2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the HDD lamp lights up on the unit.
(3) Transmit "43-8b" from the Jig RCU.
(4) SYSTEM INFORMATION menu is displayed in the screen.
(5) To move cursor in SYSTEM INFO, use the " ▲", "▼ ", "◀ ", and "▶ " buttons of a remote control unit attached to product.
(6) To quit the SYSTEM INFO menu, transmit "43-8b" from the Jig RCU..
(7) Cancel Jig RCU mode.

The example of a display **< Version Info 1 >**



The example of a display **< Version Info 2 >**



NOTE:

Items other than the ones described above are not used in service work.

5.4.2 Updating the firmware of the unit

- Firmware update disc supports CD-R media.
- When firmware update is necessary, information is available from the homepage of DIGITAL VIDEO STORAGE CATEGORY, CS group.

5.4.2.1 Creating an update disc

Please check the details of the update disc creation method by JS-NET.

(1) Down load the update file from JS-NET.
(2) Write the update file into CD-R. Pay attention in the following points when writing the update disc.

- Make sure to write in “Disc at Once”.
- Set the file compatibility to “ISO9660 format”. (ROMEO, JOLIET are disapproved.)
  If the writing method is not correct, the update results in an error.

5.4.2.2 Update procedure

- There are two methods of updating firmware, using JIG RCU mode < method 1 > or not using JIG mode(User update mode) < method 2 >.
  Updating can be operated in either method.

< Method 1 >

(1) Set to the Jig RCU mode.
(2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the update disc on the tray, and then close the tray.
(4) When the disc reading operation is completed, transmit “43-70” with the Jig remote control unit.
If the update disc is not correct, FDP indicator displays an “ERROR” after transmitting “43-70”. Transmit “43-70” once and make the FDP indicator to normal display, and then reload the disc then transmit “43-70” again.
(5) “UPDATE” is displayed in the FDP indicator, and the FDP indicator changes to “UPDATE” afterwards. It takes approx. 2 minutes for the change.
(6) Remove the disc as the tray is ejected, and then transmit “43-70” with the Jig remote control unit. Then the FDP indicator changes from “UPDATE” to the normal display.
(7) Close the tray and turn the unit OFF. Pull out the power code from the wall socket, then plug the power cord into the wall socket again.
(8) When “LOADING” in the FDP indicator disappears, turn the unit ON.
(9) Display the SYSTEM INFO menu, and check the version of the firmware.
(10) Cancel the Jig RCU mode.

< Method 2 >

(1) Turn the power ON. Load the update disc on the tray and close the tray.
(2) When the disc reading operation is completed, turn the power OFF.
(3) Keep pressing the “PAUSE” button and the “POWER” button at the same time. (Until FDP indicator changes to “UPDATE”).
(4) In approx. 2 minutes the tray is ejected. Remove the disc and close the tray.
(5) Reset operation is carried out automatically, and it becomes standby condition.
(6) Then, display the SYSTEM INFO menu in the Jig RCU mode and check the version.

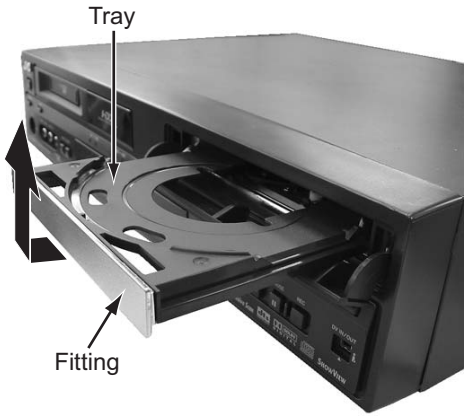
5.4.3 Updating the firmware of the drive unit

- Firmware update disc supports only DVD-RAM media.
- When firmware update is necessary, written discs are distributed by DIGITAL VIDEO STORAGE CATEGORY, CS group.

(1) Turn the unit ON.
(2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the update DVD-RAM disc on the tray and close the tray.
(4) “READING” is displayed in the FDP indicator and the update is started.
(5) In a short while “READING” in the FDP indicator disappears, open the tray to remove the disc and close the tray.
(6) Turn the power OFF and pull out the power code from the wall socket, then plug the power cord into the wall socket again.
(7) Set to the Jig RCU mode and check the firmware version of the drive.

5.4.4 Exchanging the fitting

As the fitting that comes with the service drive unit cannot be used, make sure to attach a service fitting when the drive unit is exchanged. The fitting that is removed from the old drive unit can be attached to the new drive unit.
The fitting can be removed by pulling upwards while opening out the lower part of the fitting outwards.



5.4.5 Initialization to the factory shipment state

When the initialization is operated, internal information changes as follows. It is essential to obtain the client's permission before the operation.

- All DVD library is all deleted.
- All the DVD initial settings go back to the initial status.
  (1) Set to the Jig RCU mode.
  (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
  (3) Transmit "43-6F" with the Jig remote control unit.
  (4) FDP indicator displays "FACTORY", and changes to "CHECK OK" after blinking for a short while.
  (5) Pull out the power code from the wall socket.
  (6) The Jig RCU mode is forced to cancel at the same time with the initialization, check whether the Jig RCU mode is canceled by plugging the power code into the wall socket again. (The colon ":" in time display should be continuously ON, not blinking.)
  If the Jig RCU mode is not canceled, transmit "43-9D" with Jig remote control unit to cancel the Jig RCU mode.

5.4.6 Setting after the drive unit replacement

When the drive unit is replaced, it is necessary to set a region code. Service drive units for replacement are not set for any region code, and they are in an indefinite condition.
Make sure to set region code after attaching the drive unit to the unit.
Without the setting of the region code, discs that have regions cannot be played back.

5.4.6.1 Creating a region setting disc.

Please check the details of the region setting disc creation method by JS-NET.

(1) Download the region setting file from JS-NET.
(2) Write the region setting file into CD-R. Pay attention in the following points when writing the file into CD-R.
  - Make sure to write in "Disc at Once".
  - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved).
  If the writing method is not correct, the normal setting cannot be performed.

5.4.6.2 Setting the region

(1) Set for the Jig RCU mode.
(2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the region setting disc on the tray, and then close the tray.
(4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.
(5) FDP indicator changes to "UPDATE". Remove the disc as the tray will open for a few seconds.
(6) Then, check whether the FDP indicator is "REGION 2 (or 3)".
(7) Transmit "43-70" with the Jig remote control unit. When FDP indicator changes to "OPEN", close the tray.
(8) Turn the power OFF, and pull out the power code, and then plug the power code in again.
(9) Cancel the Jig RCU mode.

5.4.7 Booting the system using the CD

The firmware of this device is stored in the Hard Disk Drive (HDD). If the firmware is collapsed for its contents, [LOADING] is repeatedly displayed on the FDP display of the main unit and the system becomes inoperative. The system operation cannot be resumed even if the AC plug is disconnected from the AC power source.
In such a situation, the operation may be resumed on a temporary basis to normal using a CD that stores the firmware. This causes the firmware in the HDD to be updated and the system may be brought to a normal operation. Refer to the following descriptions for detail.

5.4.7.1 Downloading the firmware from JS-NET to create a booting disk

NOTE:

For details of creating the booting disk, see the instructions provided in the JS-NET web site.

(1) Download all the relevant files from the JS-NET and decompress it.
(2) The file termed "bootup1.blx" will accordingly be created. Copy this file in a root directory of the CD-R.
(3) Set the track setting to [MODE2 XA] for writing the software, and select [JOLIET] as an exchangeable file name. Be sure to write the disk in [Disk at once] mode.

5.4.7.2 Booting using the Disk

The following explanation is made assuming the system operation is being unable with [LOADING] repeatedly displayed.

(1) Disconnect the AC plug and then connect it again. Immediately after this, press and hold the DVD ON/OFF button until the tray comes out.
(2) Put the booting disk on the tray and close the tray.
(3) Disconnect the AC plug. Press and hold the STOP button and connect the AC plug.
(4) Keep the button pressed for 20 seconds and release the button (Timing must be precise).
(5) [LOADING] will be displayed repeatedly for a while and the system will be brought to the standby state.
(6) Press the OPEN/CLOSE button to remove the booting disk.
(7) Turn the system on and confirm that the operation is normal. If so, the system should be properly booted from the CD-R.

5.4.7.3 Updating the firmware after booting with the CD

By updating the firmware using the CD, the built-in firmware in the HDD will be overwritten, allowing the firmware to be renovated. The system may be resumed to a normal state using this method. Be sure to download the latest version of the update firmware when you attempt to create and use the firmware. For the updating procedures, refer to 5.4.2.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD063)

Printed in Japan
VPT

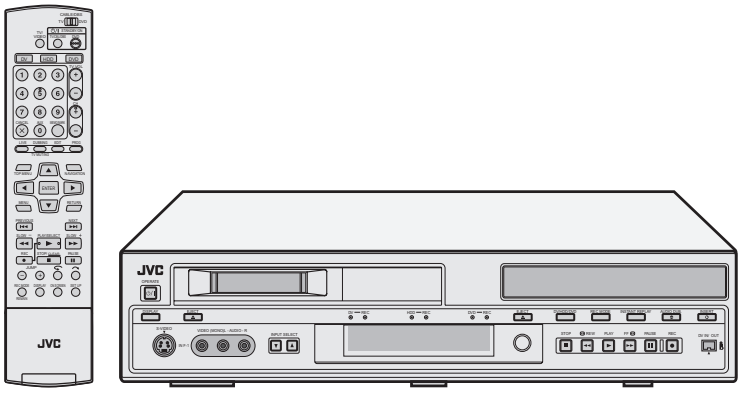
JVC

SCHEMATIC DIAGRAMS

DVD / HDD & Mini DV VIDEO RECORDER

SR-DVM70US

CD-ROM No.SML200505



SR-DVM70US [D4MC29]

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No.YD063SCH
2005/5

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

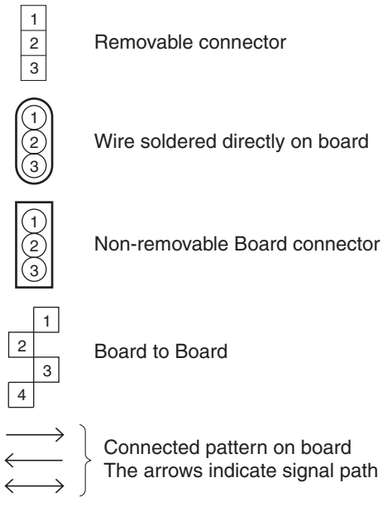
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{AUX}$ or AUX(L) : Active at low.

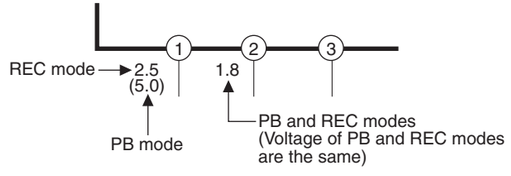
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

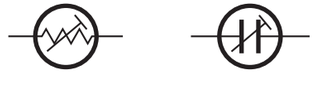
- Playback signal path
- Playback and recording signal path (including E-E signal path)
- Capstan servo path
- Drum servo path

(Example)

- R-Y — Playback R-Y signal path
- Y — Recording Y signal path

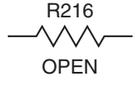
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

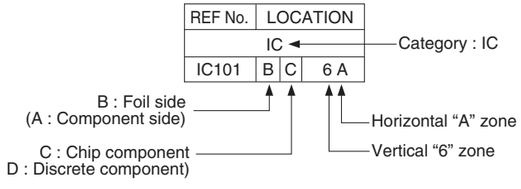
1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

rts location are indicated by guide scale on the circuit board.

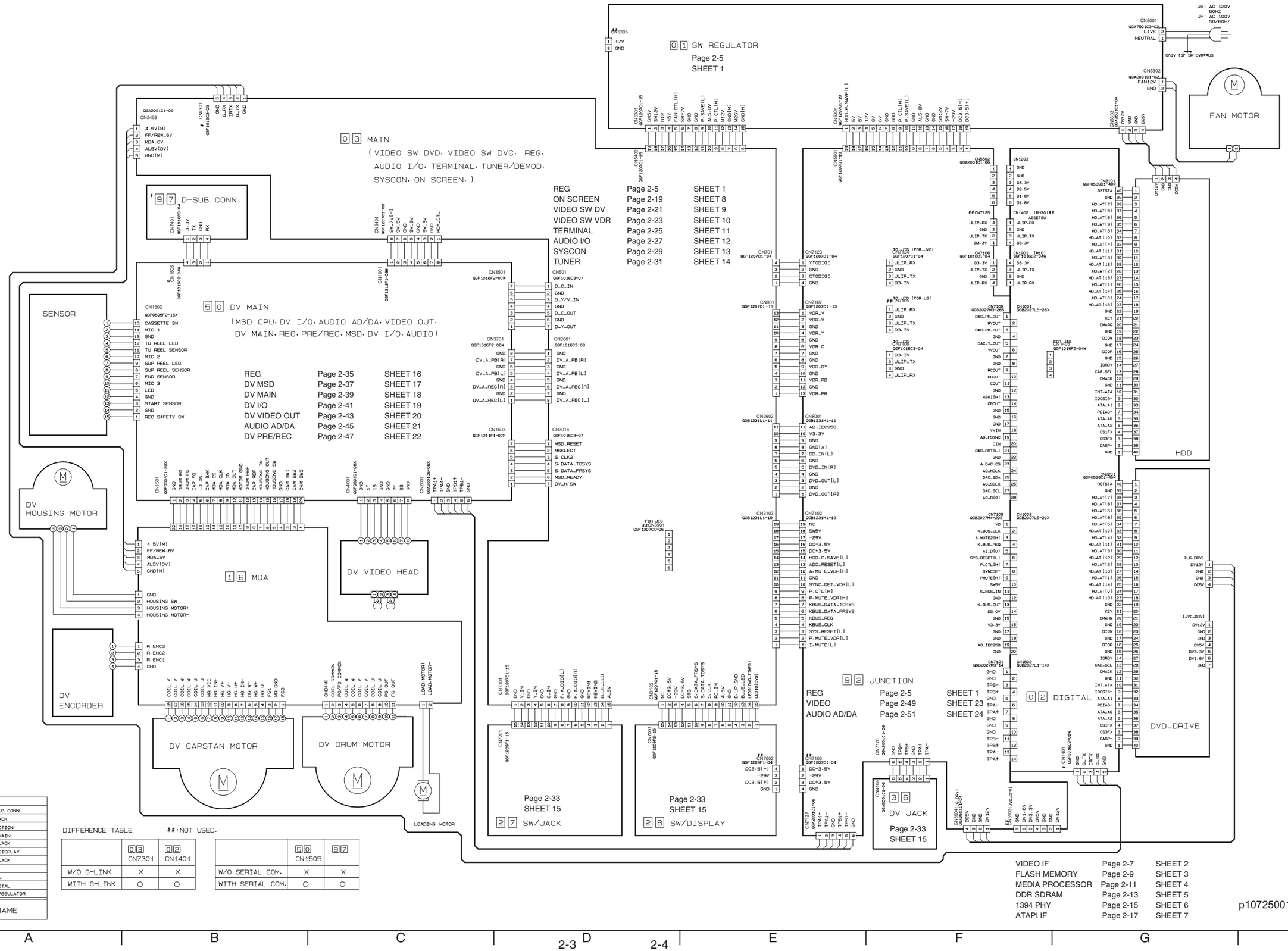
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

■ BOARD INTERCONNECTIONS


01 SW REGULATOR
Page 2-5
SHEET 1
03 MAIN
(VIDEO SW DVD, VIDEO SW DVC, REG, AUDIO I/O, TERMINAL, TUNER/DEMOD, SYSCON, ON SCREEN,)
REG Page 2-5 SHEET 1
ON SCREEN Page 2-19 SHEET 8
VIDEO SW DV Page 2-21 SHEET 9
VIDEO SW VDR Page 2-23 SHEET 10
TERMINAL Page 2-25 SHEET 11
AUDIO I/O Page 2-27 SHEET 12
SYSCON Page 2-29 SHEET 13
TUNER Page 2-31 SHEET 14
97 D-SUB CONN
50 DV MAIN
(MSD CPU, DV I/O, AUDIO AD/DA, VIDEO OUT, DV MAIN, REG, PRE/REC, MSD, DV I/O, AUDIO)
REG Page 2-35 SHEET 16
DV MSD Page 2-37 SHEET 17
DV MAIN Page 2-39 SHEET 18
DV I/O Page 2-41 SHEET 19
DV VIDEO OUT Page 2-43 SHEET 20
AUDIO AD/DA Page 2-45 SHEET 21
DV PRE/REC Page 2-47 SHEET 22
SENSOR
DV HOUSING MOTOR
DV ENCORDER
DV CAPSTAN MOTOR
DV DRUM MOTOR
LOADING MOTOR
DV VIDEO HEAD
16 MDA
FAN MOTOR
HDD
DVD_DRIVE
92 JUNCTION
REG Page 2-5 SHEET 1
VIDEO Page 2-49 SHEET 23
AUDIO AD/DA Page 2-51 SHEET 24
02 DIGITAL
36 DV JACK
Page 2-33 SHEET 15
27 SW/JACK
Page 2-33 SHEET 15
28 SW/DISPLAY
Page 2-33 SHEET 15
US: AC 120V 60Hz
JP: AC 100V 50/60Hz
Only for SA-DVHR*US
VIDEO IF Page 2-7 SHEET 2
FLASH MEMORY Page 2-9 SHEET 3
MEDIA PROCESSOR Page 2-11 SHEET 4
DDR SDRAM Page 2-13 SHEET 5
1394 PHY Page 2-15 SHEET 6
ATAPI IF Page 2-17 SHEET 7

NO	NAME
97	D-SUB CONN
94	R-JACK
92	JUNCTION
50	DV MAIN
36	DV JACK
28	SW/DISPLAY
27	SW/JACK
16	MDA
03	MAIN
02	DIGITAL
01	SW REGULATOR

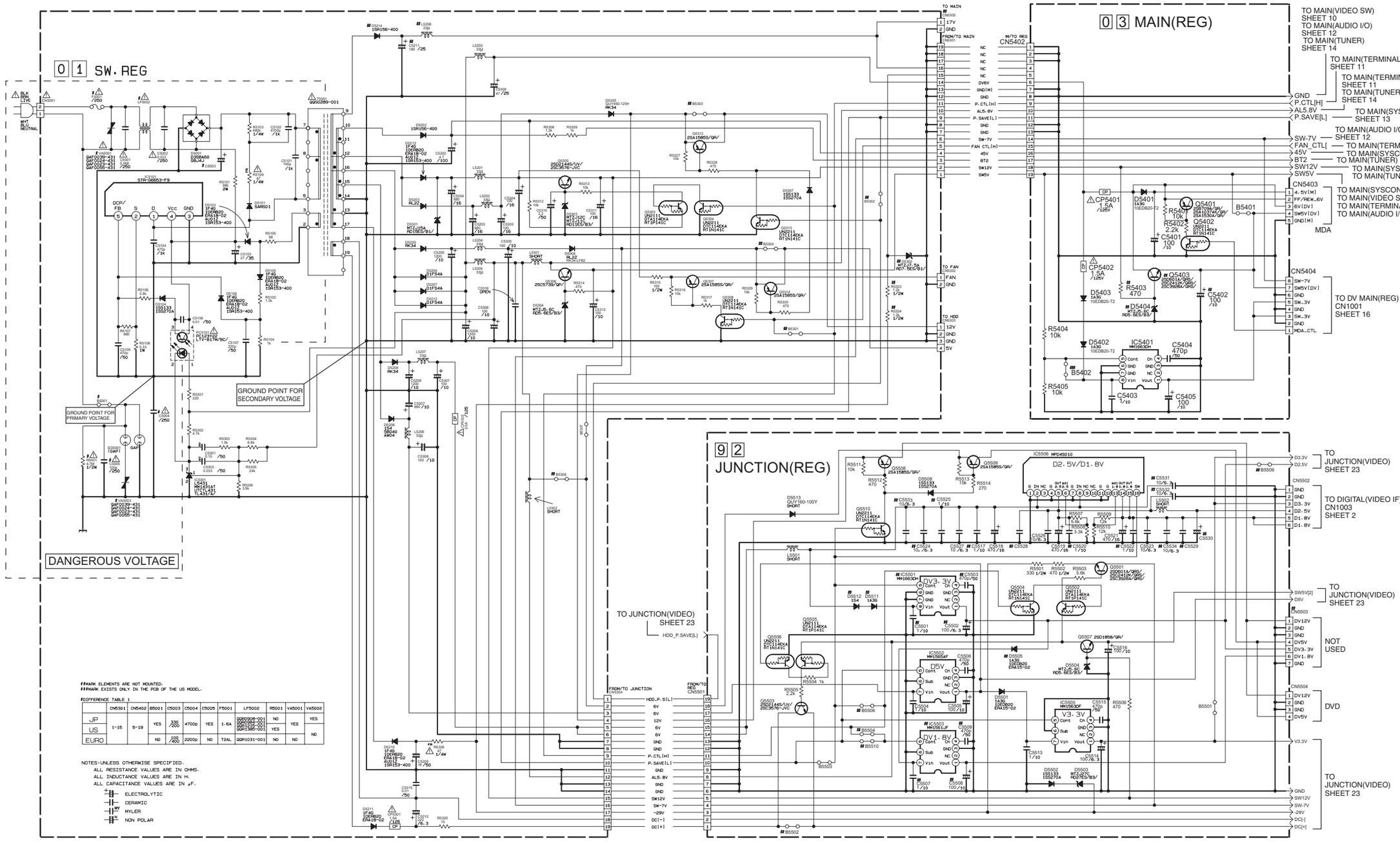
DIFFERENCE TABLE ##:NOT USED.

	03 CN7301	02 CN1401
W/O G-LINK	×	×
WITH G-LINK	○	○

	50 CN1505	97
W/O SERIAL COM.	×	×
WITH SERIAL COM.	○	○

p10725001a_rev0

■ SW.REG, MAIN(REG) AND JUNCTION(REG) SCHEMATIC DIAGRAM



#MARK ELEMENTS ARE NOT MOUNTED.
##MARK EXISTS ONLY IN THE PCB OF THE US MODEL.

#DIFFERENCE TABLE 1

	CN5301	CN5402	B5001	C5003	C5004	C5005	F5001	LF5002	R5001	VA5001	VA5002
JP	1-15	5-19	YES	330 /200	4700p	YES	1.6A	QQR0003-001	NO	YES	YES
US								QQR1013-001	YES		NO
EURO			NO	100 /400	2200p	NO	T2AL	QQR1031-001	NO	NO	

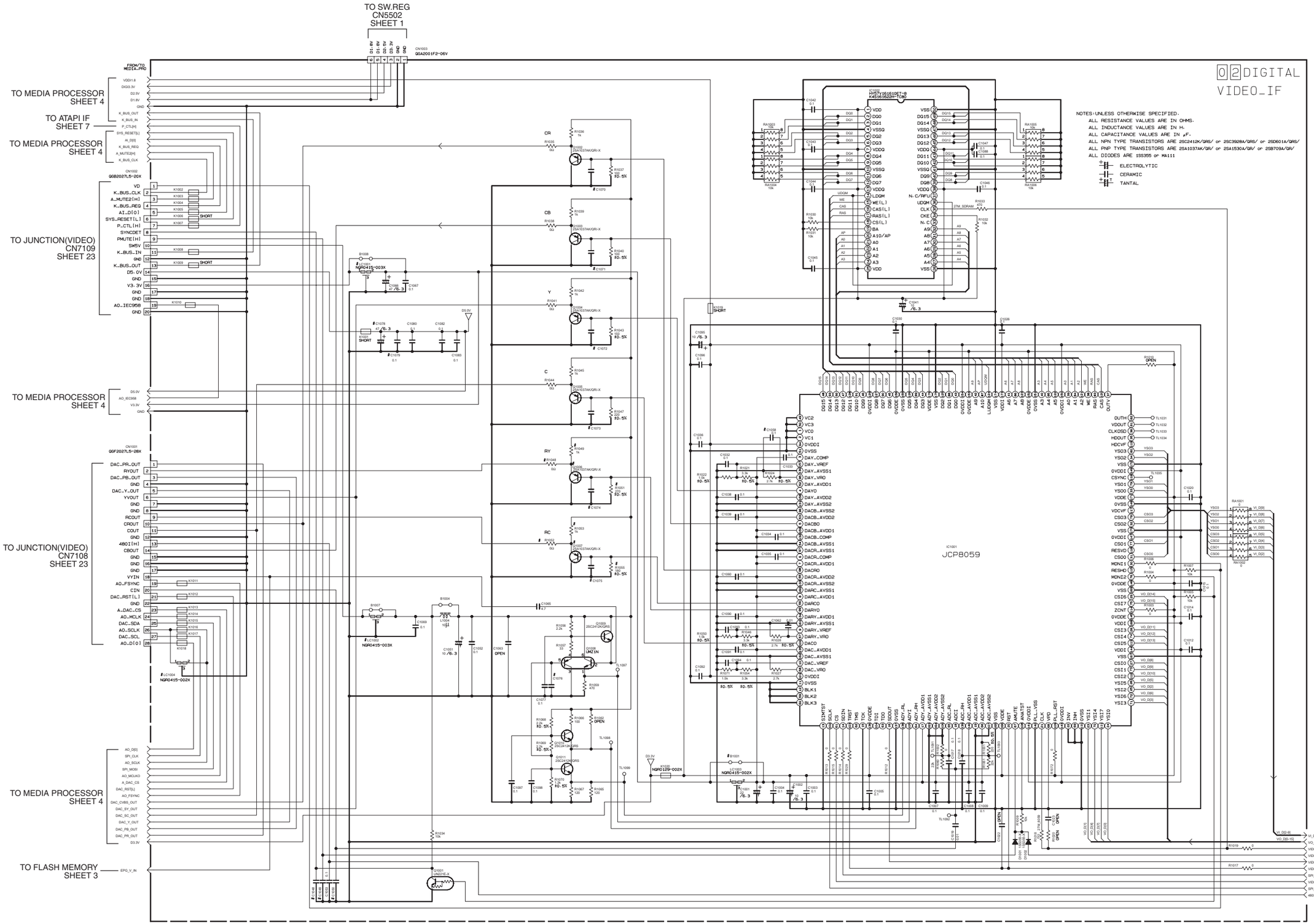
NOTES-UNLESS OTHERWISE SPECIFIED-
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10687001a_rev0

SHEET 1

2-5 2-6

■ DIGITAL(VIDEO IF) SCHEMATIC DIAGRAM

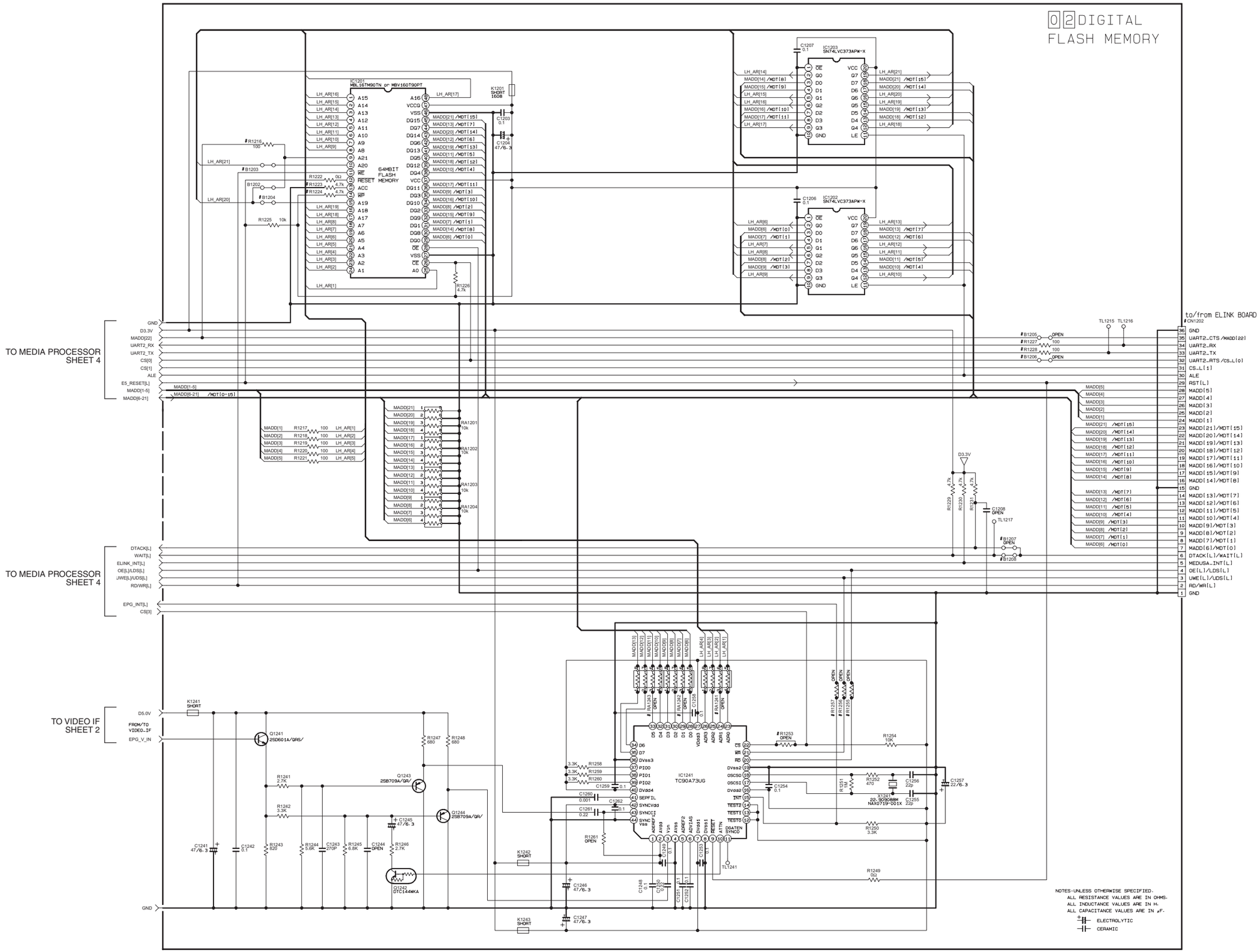

TO SW.REG CN5502 SHEET 1
CN1003 QGA2001F2-06V
FROM/TO MEDIA_PRO
TO MEDIA PROCESSOR SHEET 4
TO ATAPI IF SHEET 7
TO JUNCTION(VIDEO) CN7109 SHEET 23
CN1002 QGB2027L5-20X
CN1001 QGF2027L5-28X
TO FLASH MEMORY SHEET 3
EPG_V_IN
02 DIGITAL VIDEO_IF
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ALL NPN TYPE TRANSISTORS ARE 2SC2412K/QR6/ or 2SC3928A/QR6/ or 2SD601A/QR6/
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/QR/ or 2SA1530A/QR/ or 2SB709A/QR/
ALL DIODES ARE 1SS355 or MA111
ELECTROLYTIC
CERAMIC
TANTAL
IC1002 HY57V161610ET-8 K4S161632H-TC60
IC1001 JCP8059
27M SDRAM
TO MEDIA PROCESSOR SHEET 4

p10657001a_rev0

SHEET 2

2-7 2-8

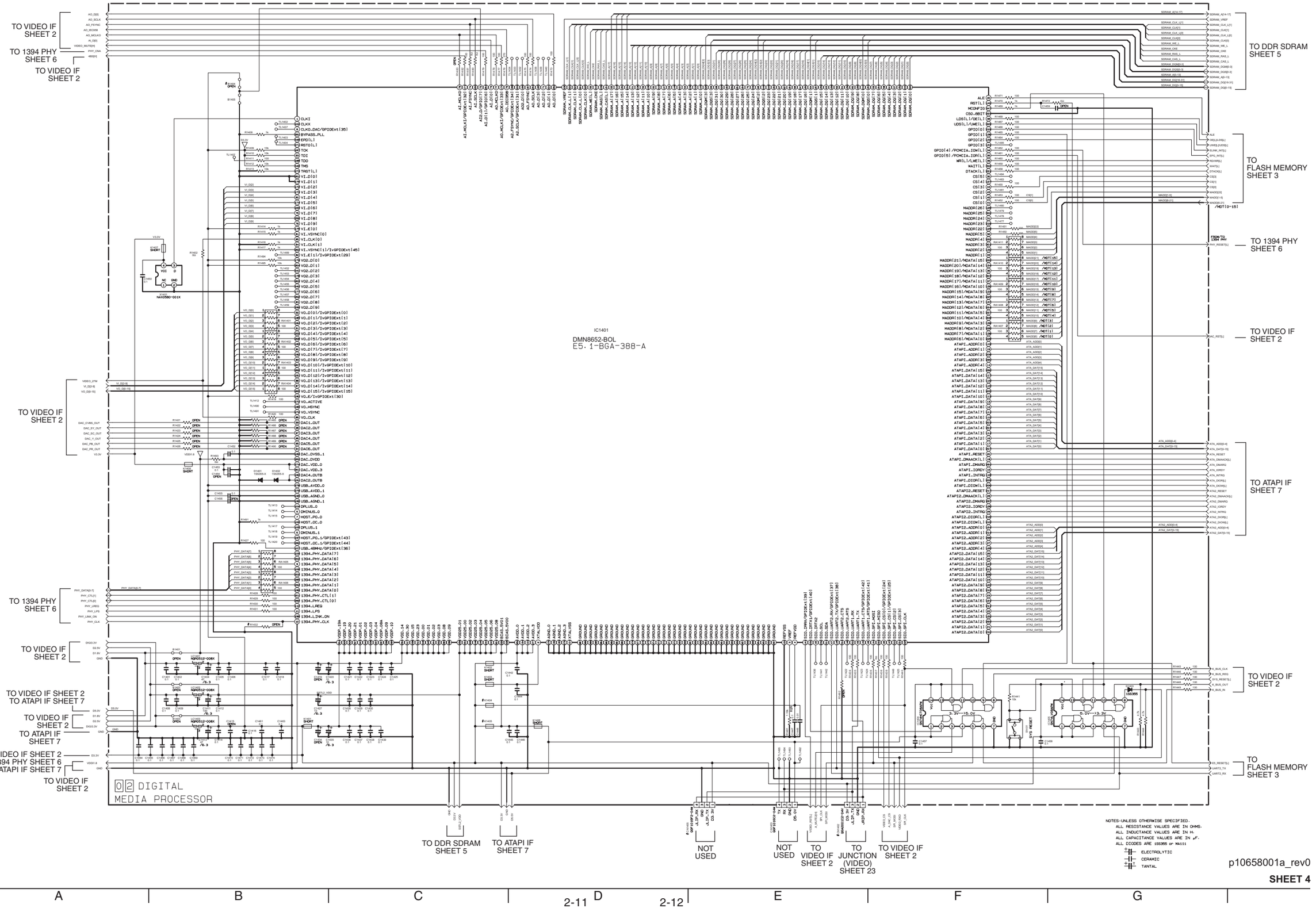
■ DIGITAL(FLASH MEMORY) SCHEMATIC DIAGRAM



p10659001a_rev0

SHEET 3

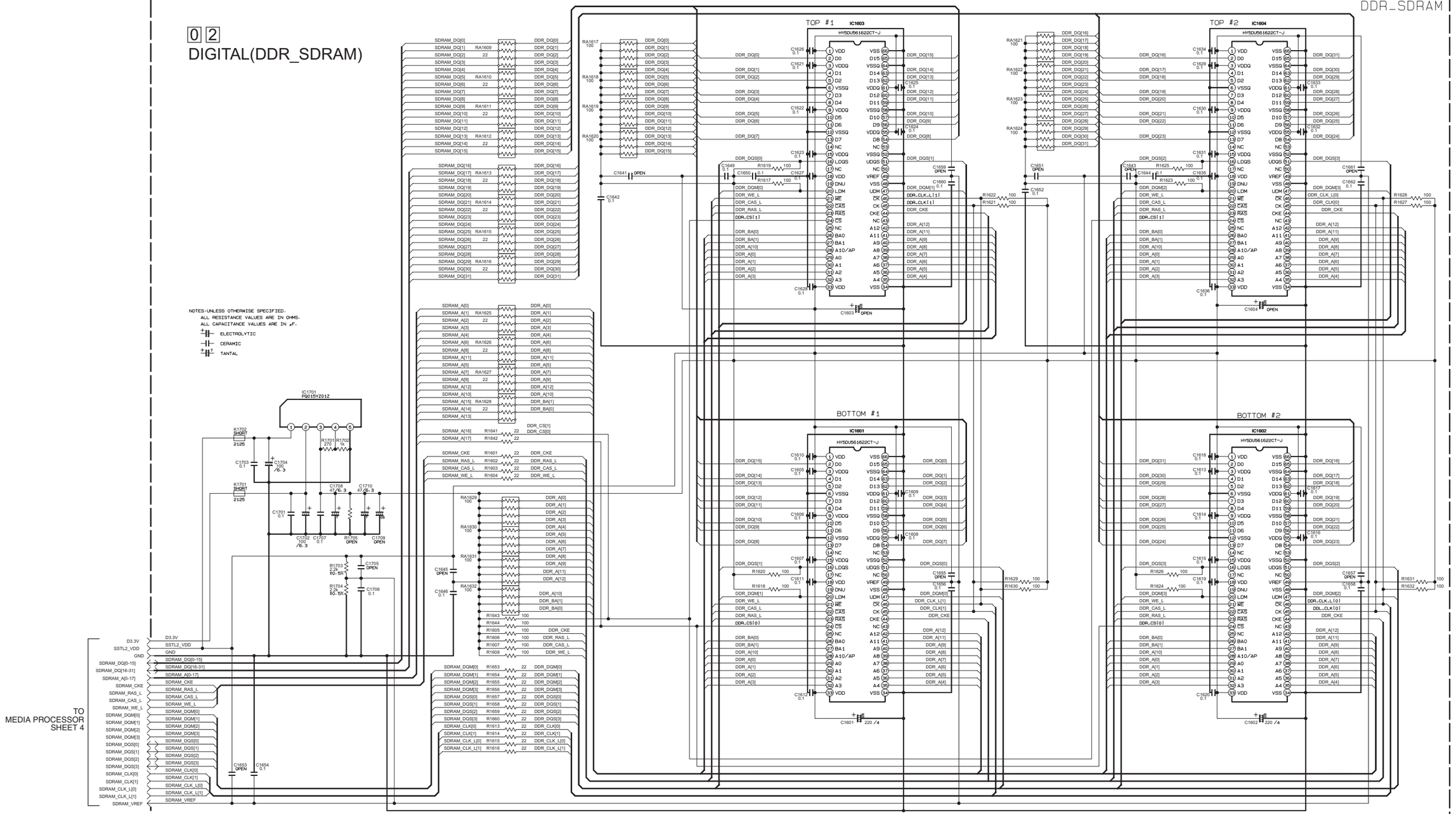
■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM



■ DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM

02
DIGITAL(DDR_SDRAM)

DDR_SDRAM



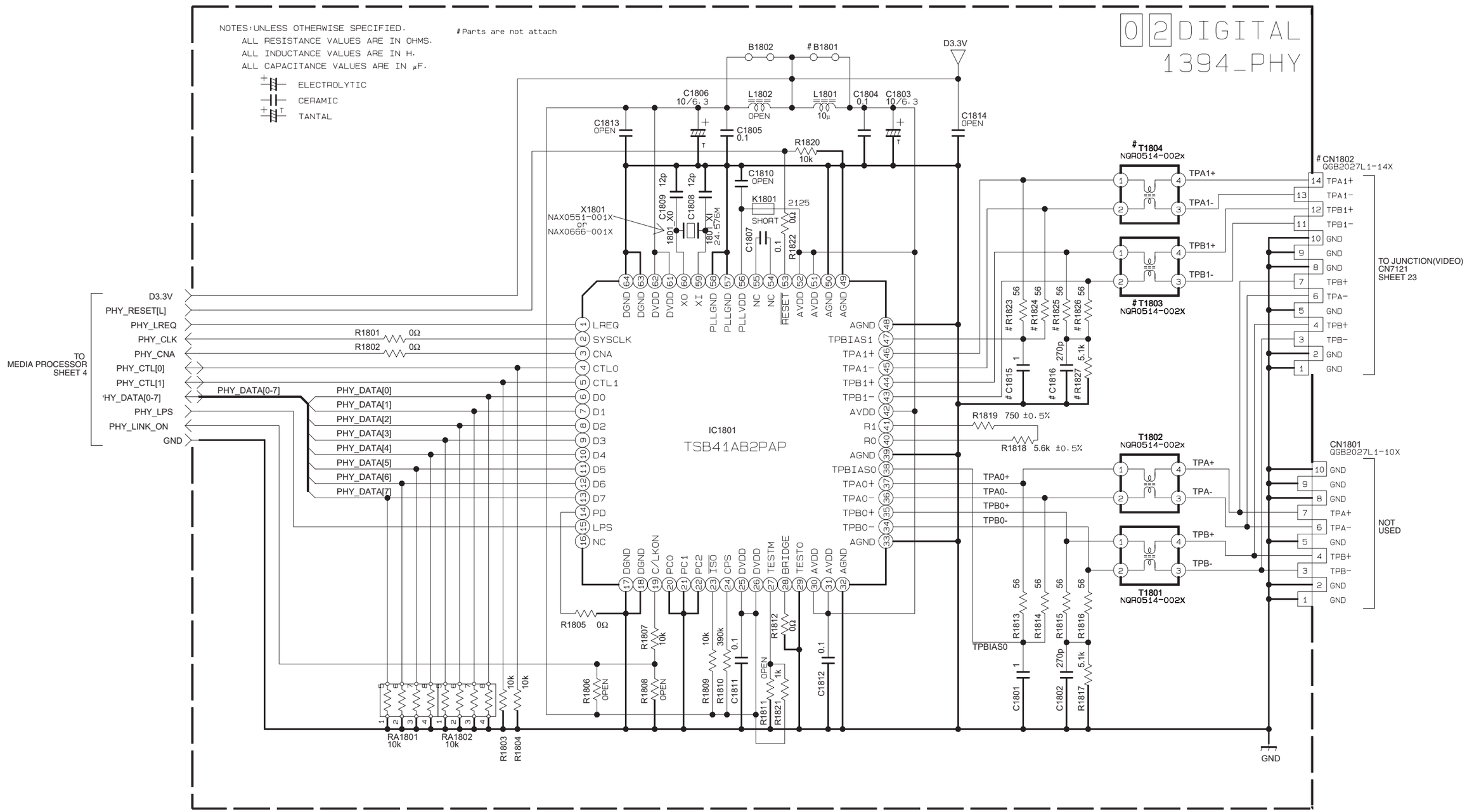
NOTES-UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
TANTAL

p10614001a_rev0

SHEET 5

2-13 2-14

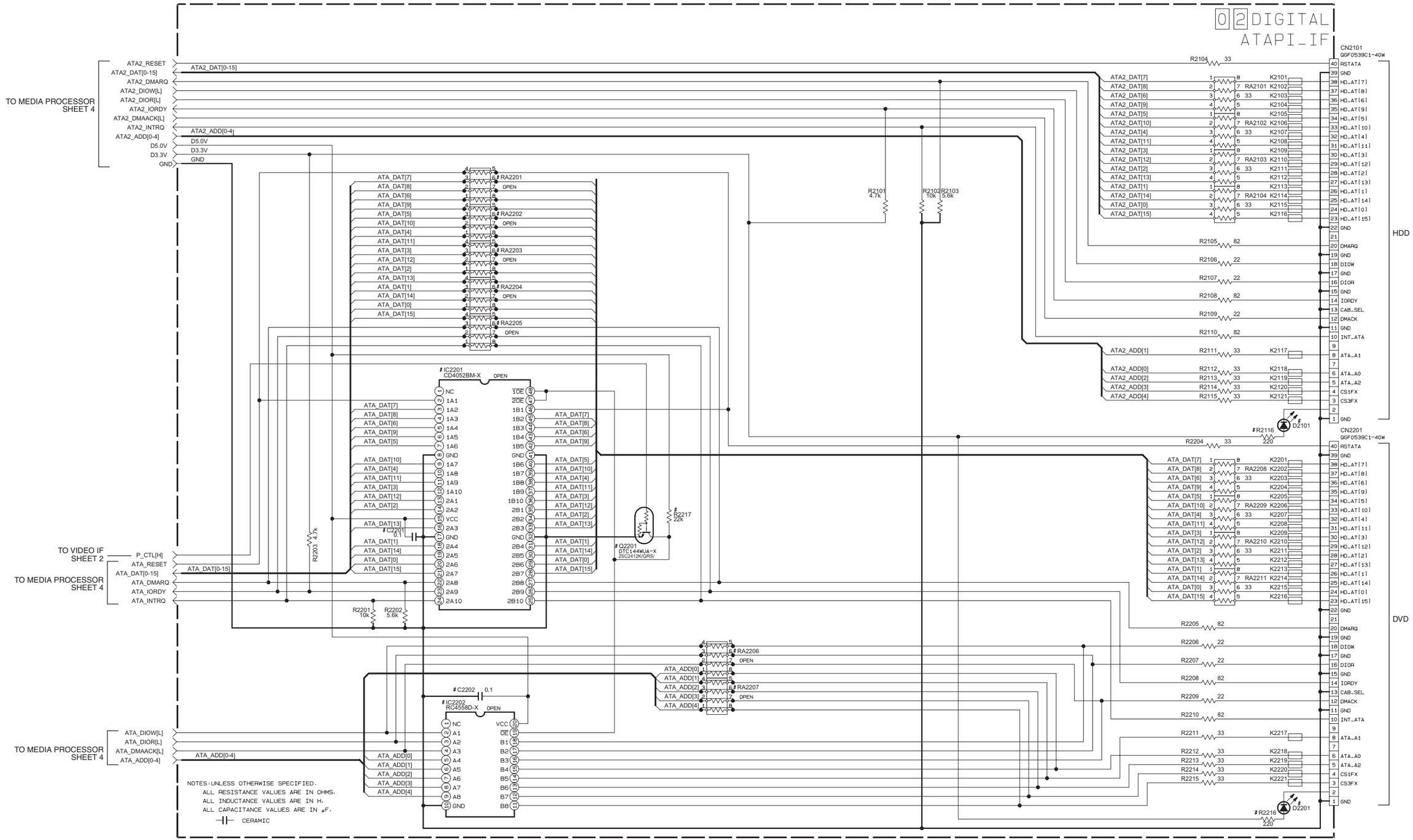
■ DIGITAL(1394 PHY) SCHEMATIC DIAGRAM



p30128001a_rev0

SHEET 6

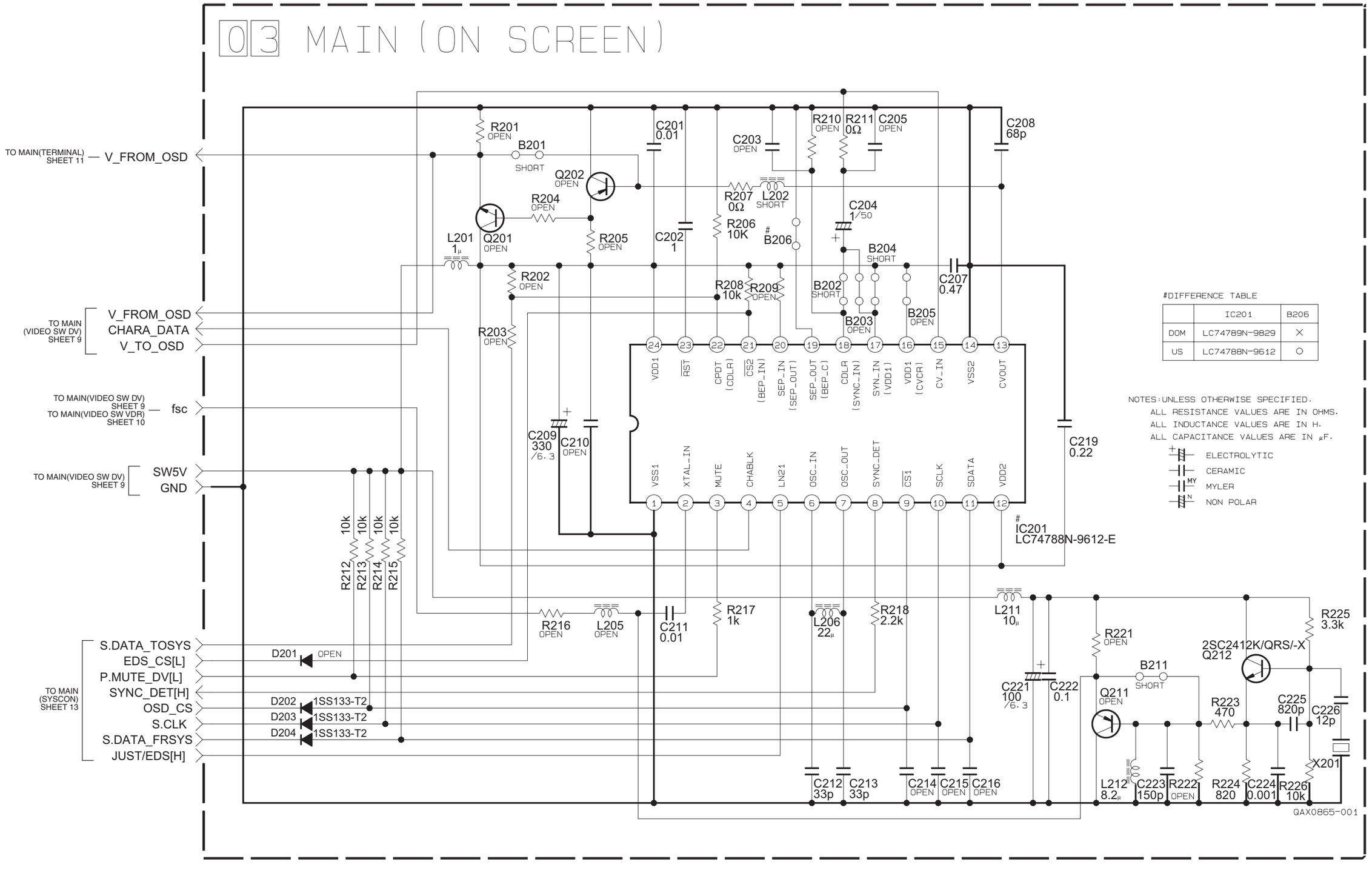
■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM



p20437001a_rev0

SHEET 7

■ MAIN(ON SCREEN) SCHEMATIC DIAGRAM



#DIFFERENCE TABLE

	IC201	B206
DOM	LC74789N-9829	×
US	LC74788N-9612	○

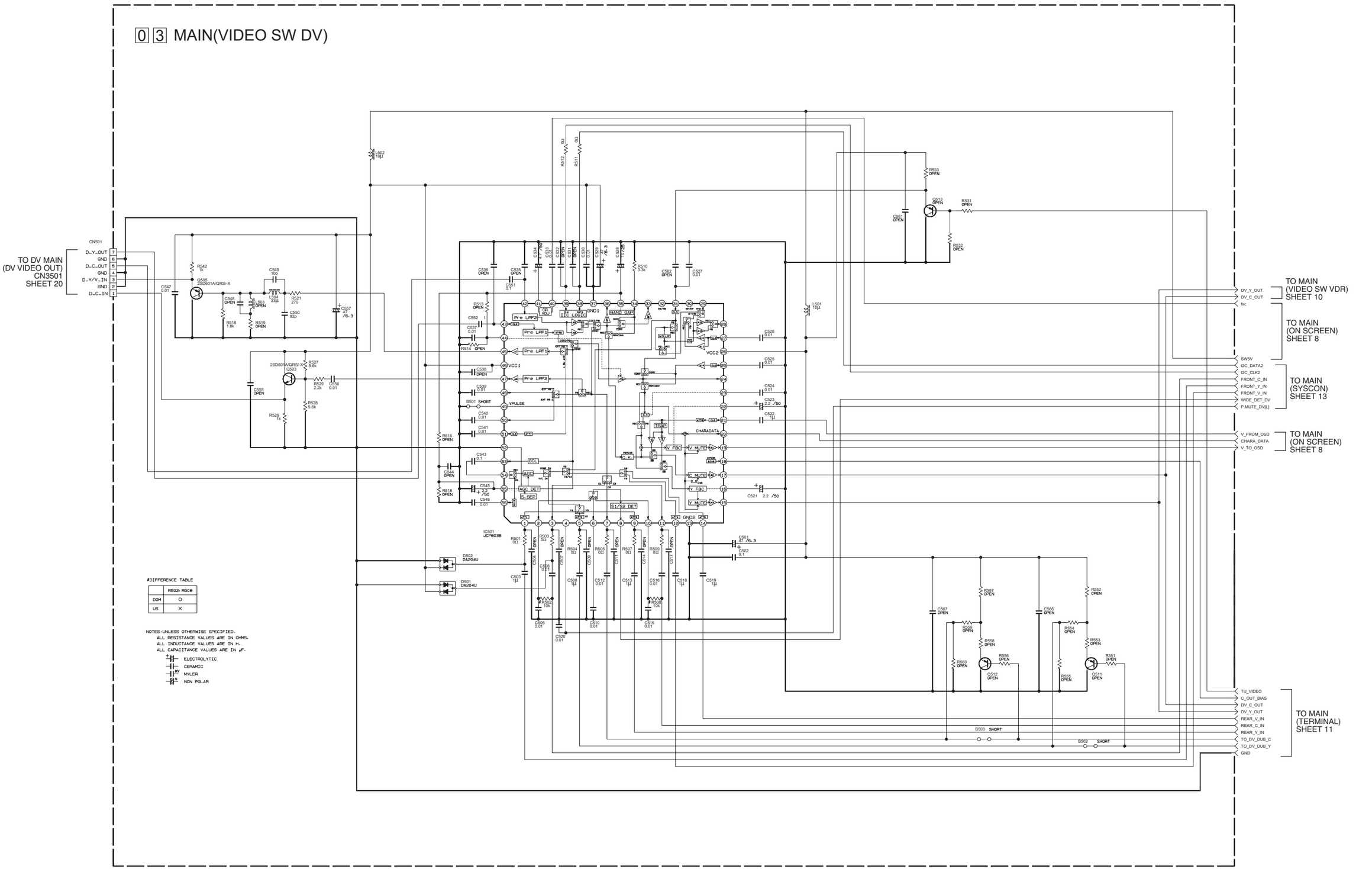
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p30135001a_rev0

SHEET 8

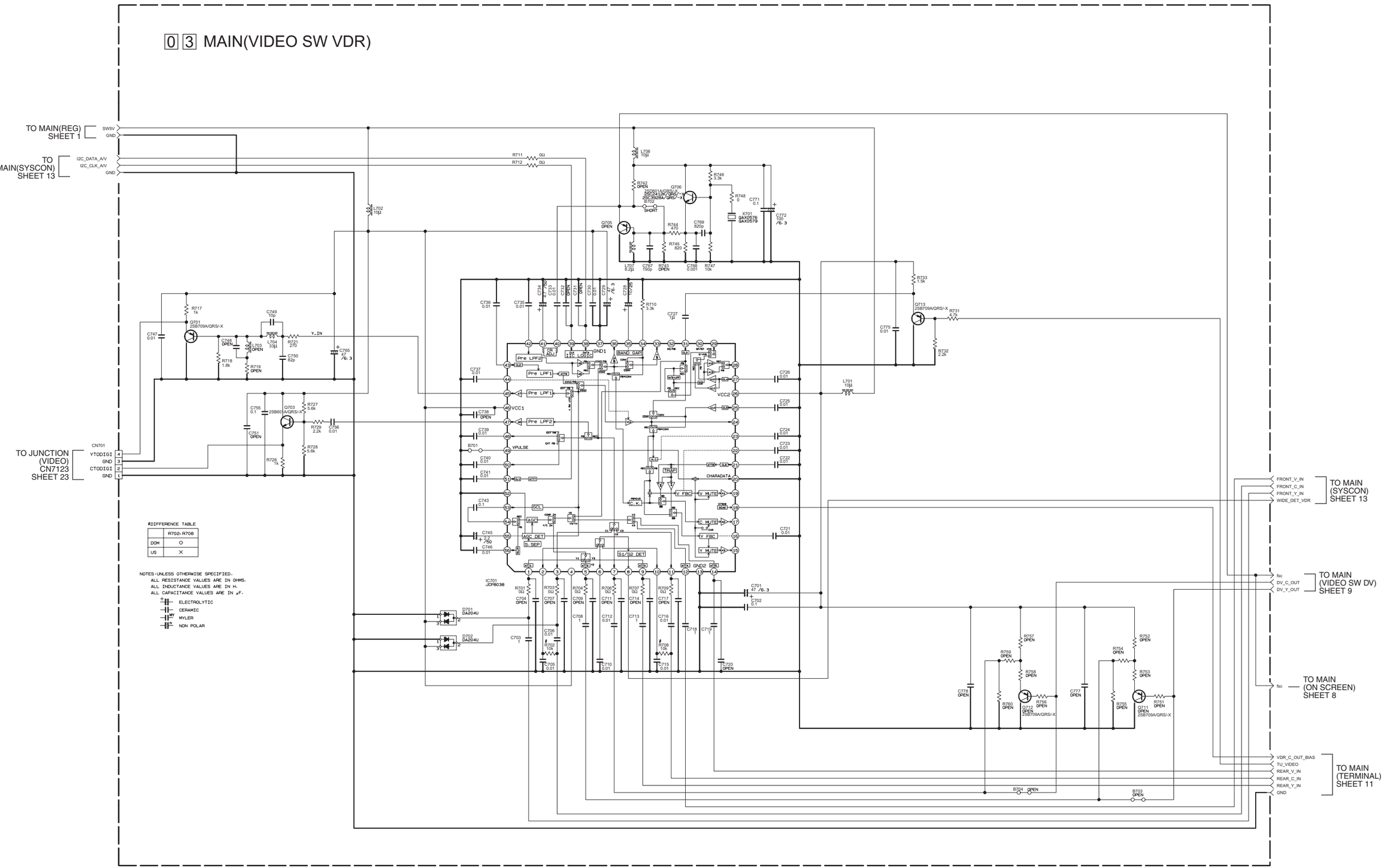
■ MAIN(VIDEO SW DV) SCHEMATIC DIAGRAM



p10724001a_rev0

SHEET 9

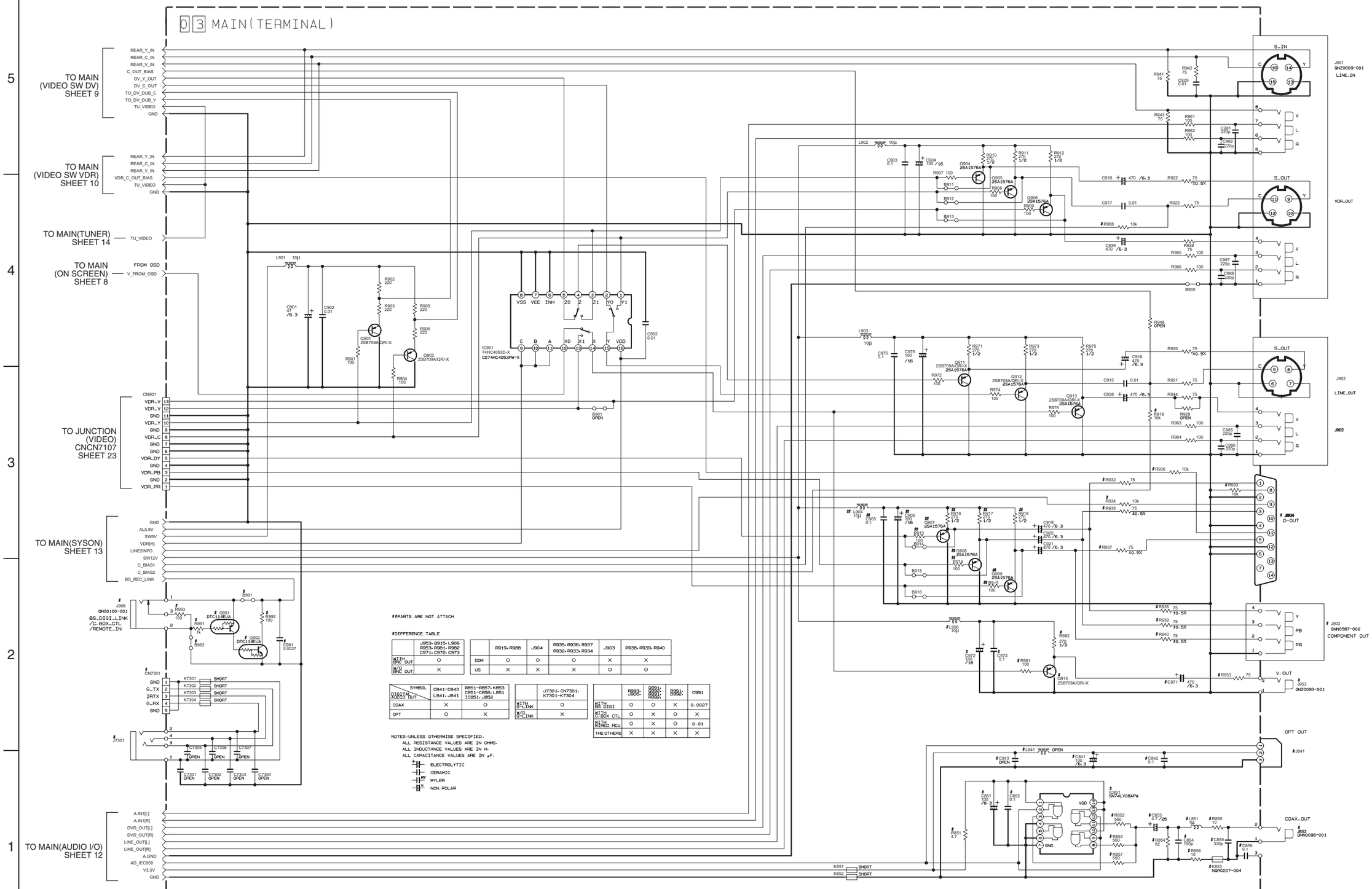
■ MAIN(VIDEO SW VDR) SCHEMATIC DIAGRAM



p10723001a_rev0

SHEET 10

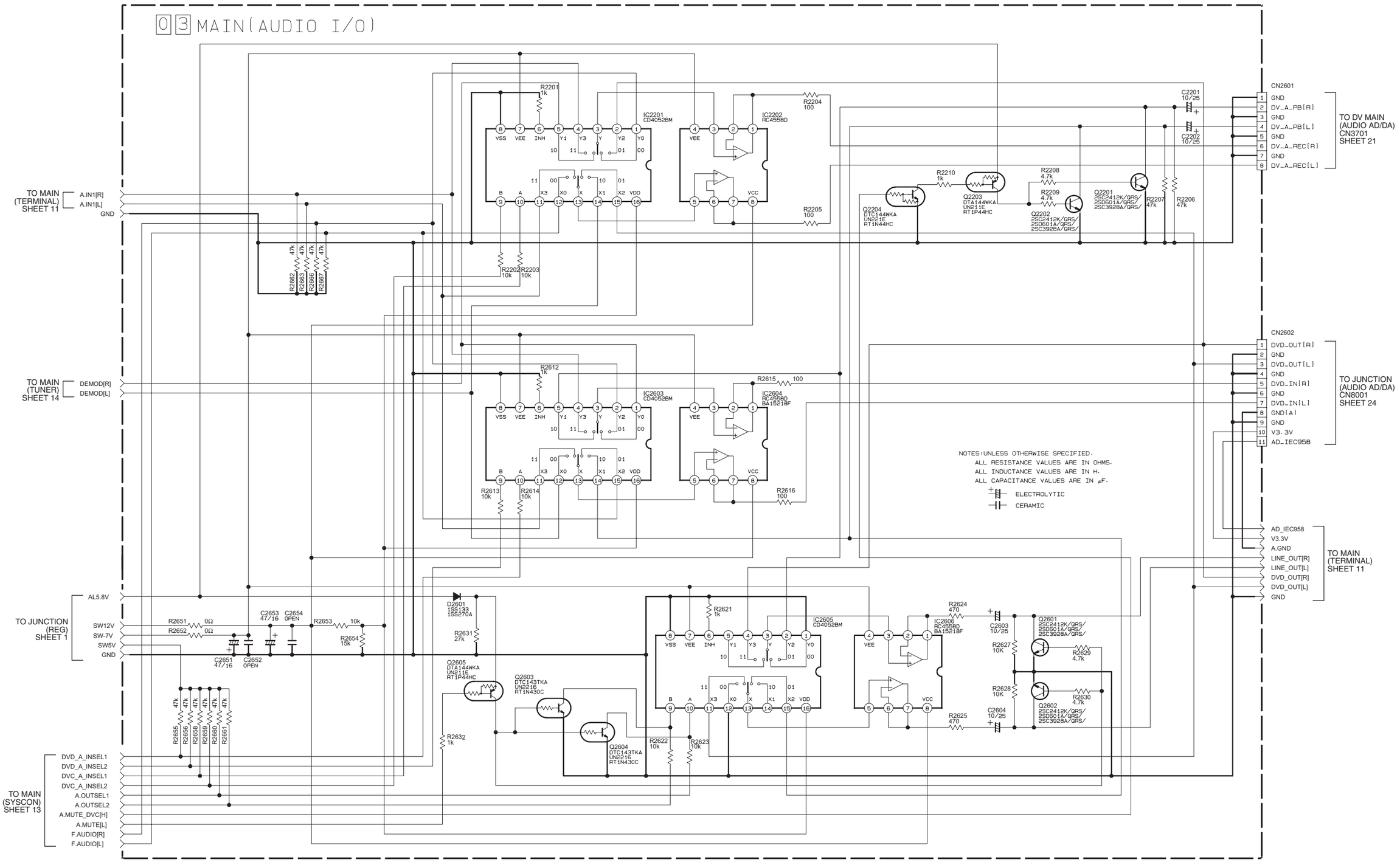
■ MAIN(TERMINAL) SCHEMATIC DIAGRAM



p10722001a_rev0

SHEET 11

■ MAIN(AUDIO I/O) SCHEMATIC DIAGRAM



p20478001a_rev0

SHEET 12

■ MAIN(SYSCON) SCHEMATIC DIAGRAM

03 MAIN(SYSCON)

TO MAIN (VIDEO SW VDR) SHEET 10
TO MAIN (VIDEO SW DV) SHEET 9
TO MAIN (VIDEO SW VDR) SHEET 10
TO MAIN(REG) SHEET 1
TO JUNCTION (VIDEO) CN7102 SHEET 23
TO SW/DISPLAY CN7001 SHEET 15
TO DV MAIN (DV MSD) CN503 SHEET 17
TO SW JACK CN7201 SHEET 15
TO MAIN(AUDIO) SHEET 12
TO MAIN (ON SCREEN) SHEET 8
TO MAIN (TERMINAL) SHEET 11
TO MAIN (TUNER) SHEET 14

IC3001 HD64321GX###C HD64F3194C###

IC3002 S-80827CNNB

IC3004 R5C424##F CAT24WC##JI

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

##:NOT USED.

#:DIFFERENCE TABLE

	B3002	R3206 R3010 R7301 CN3006	C3040 R3207 C3010	C3011
L1:Batt-Back up	X	○	X	X
EDMin-Back up	○	X	○	X
IDMin Back up	○	X	X	○

	Q3009 D3007 R3030 R3031 R3033
WITH AV COMP	○
W/O AV COMP	X

	L7201 Y3001 C7202, C7203 R7202, R7204 R3042, R3043
WITH C.BOX CTL	○
W/O C.BOX CTL	X

	R3032	R3232	D3007
WITH BS DIGI	1k	4.7k	SHORT
W/O BS DIGI	X	X	X

	R3232 R3233 D3007
WITH WIRED RCU	○
W/O WIRED RCU	X

	Q3010 R3205
DX7	○
DVM70	X

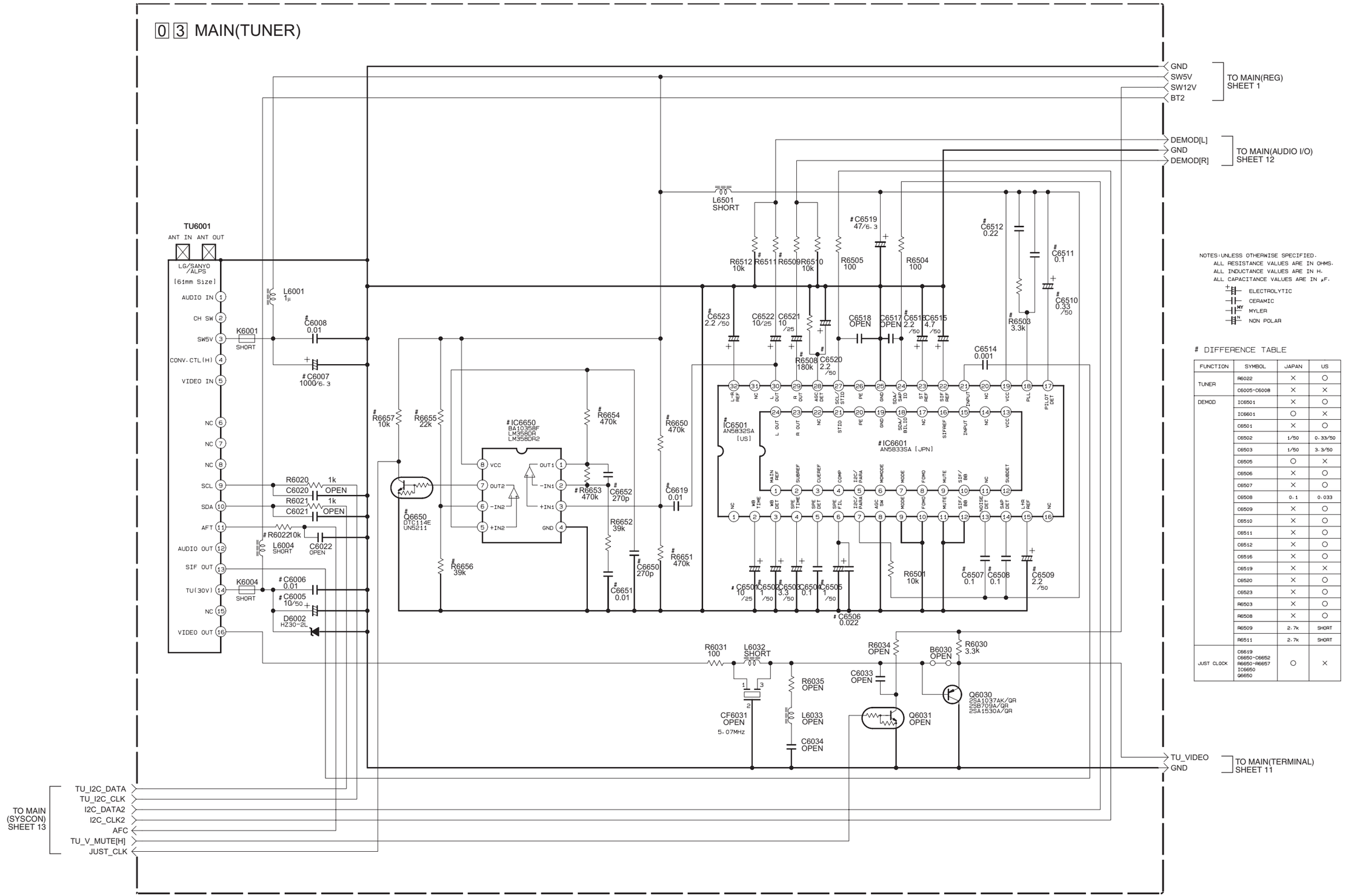
	B3006 R3018 R3021	B3007 R3019 R3023
US	○	X
JP	X	○

p10726001a_rev0

SHEET 13

2-29 2-30

■ MAIN(TUNER) SCHEMATIC DIAGRAM



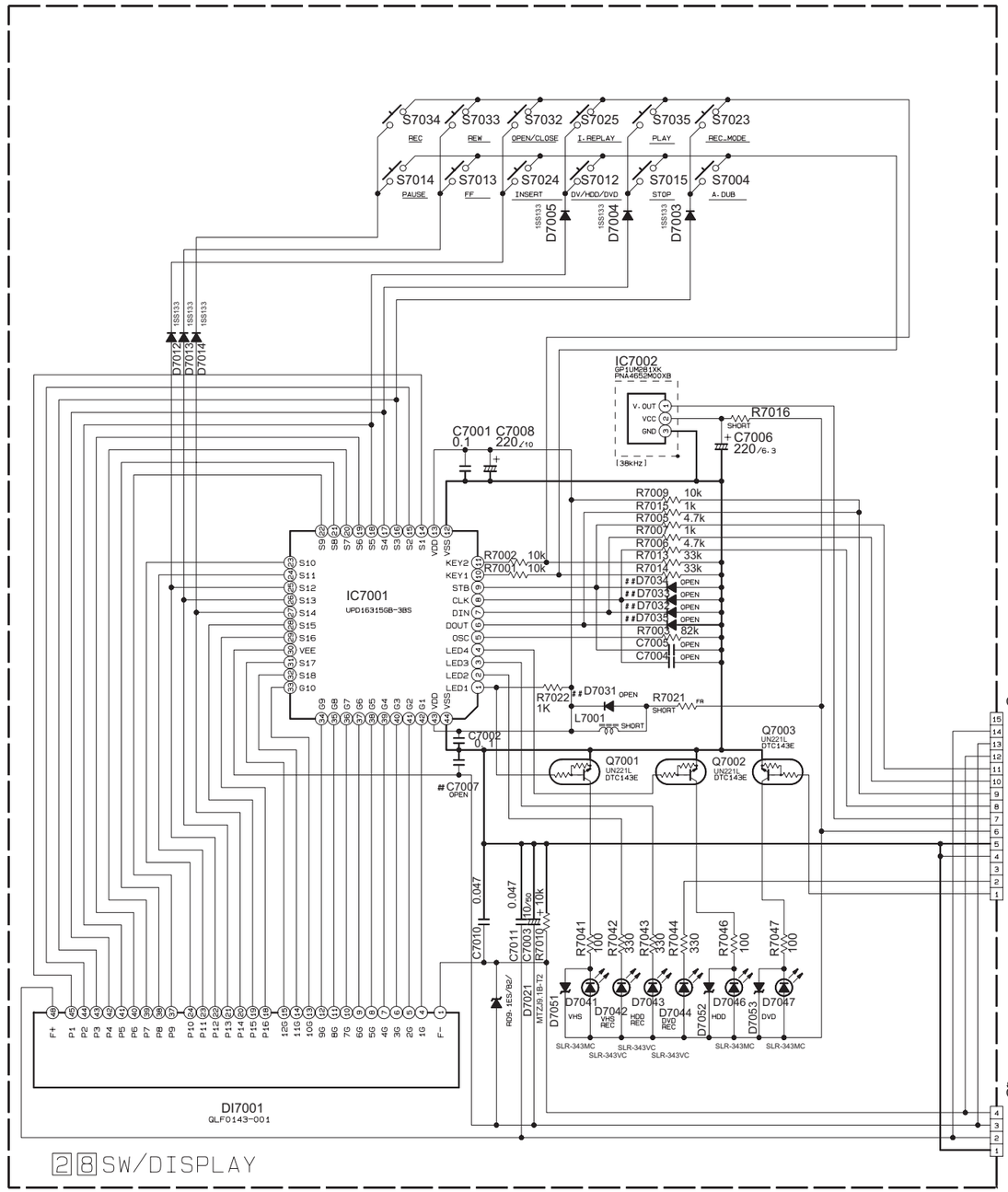
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

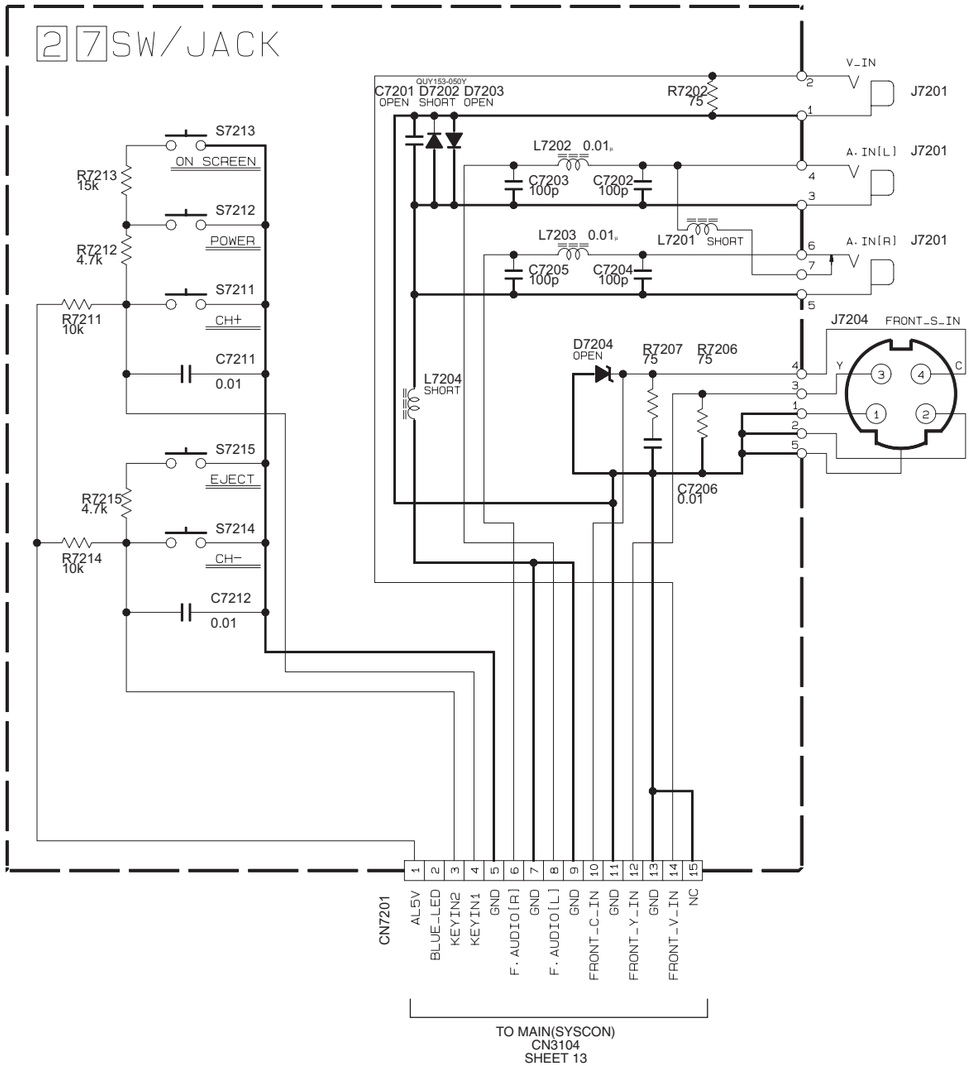
DIFFERENCE TABLE

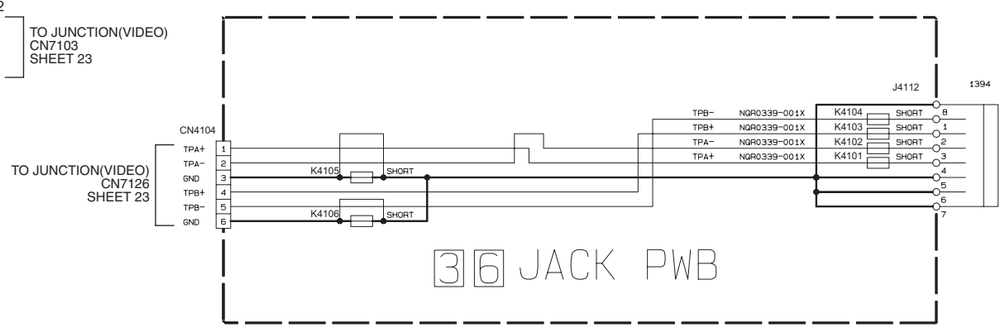
FUNCTION	SYMBOL	JAPAN	US
TUNER	R6022	×	○
	C6005-C6008	×	×
DEMOD	IC6501	×	○
	IC6601	○	×
	C6501	×	○
	C6502	1/50	0.33/50
	C6503	1/50	3.3/50
	C6505	○	×
	C6506	×	○
	C6507	×	○
	C6508	0.1	0.033
	C6509	×	○
	C6510	×	○
	C6511	×	○
	C6512	×	○
	C6516	×	○
	C6519	×	×
	C6520	×	○
	C6523	×	○
	R6503	×	○
	R6508	×	○
	R6509	2.7k	SHORT
	R6511	2.7k	SHORT
JUST CLOCK	C6619 C6650-C6652 R6650-R6657 IC6650 Q6650	○	×

p20449001a_rev0

■ SWITCH JACK, SWITCH DISPLAY AND JACK SCHEMATIC DIAGRAM







##:NOT USED

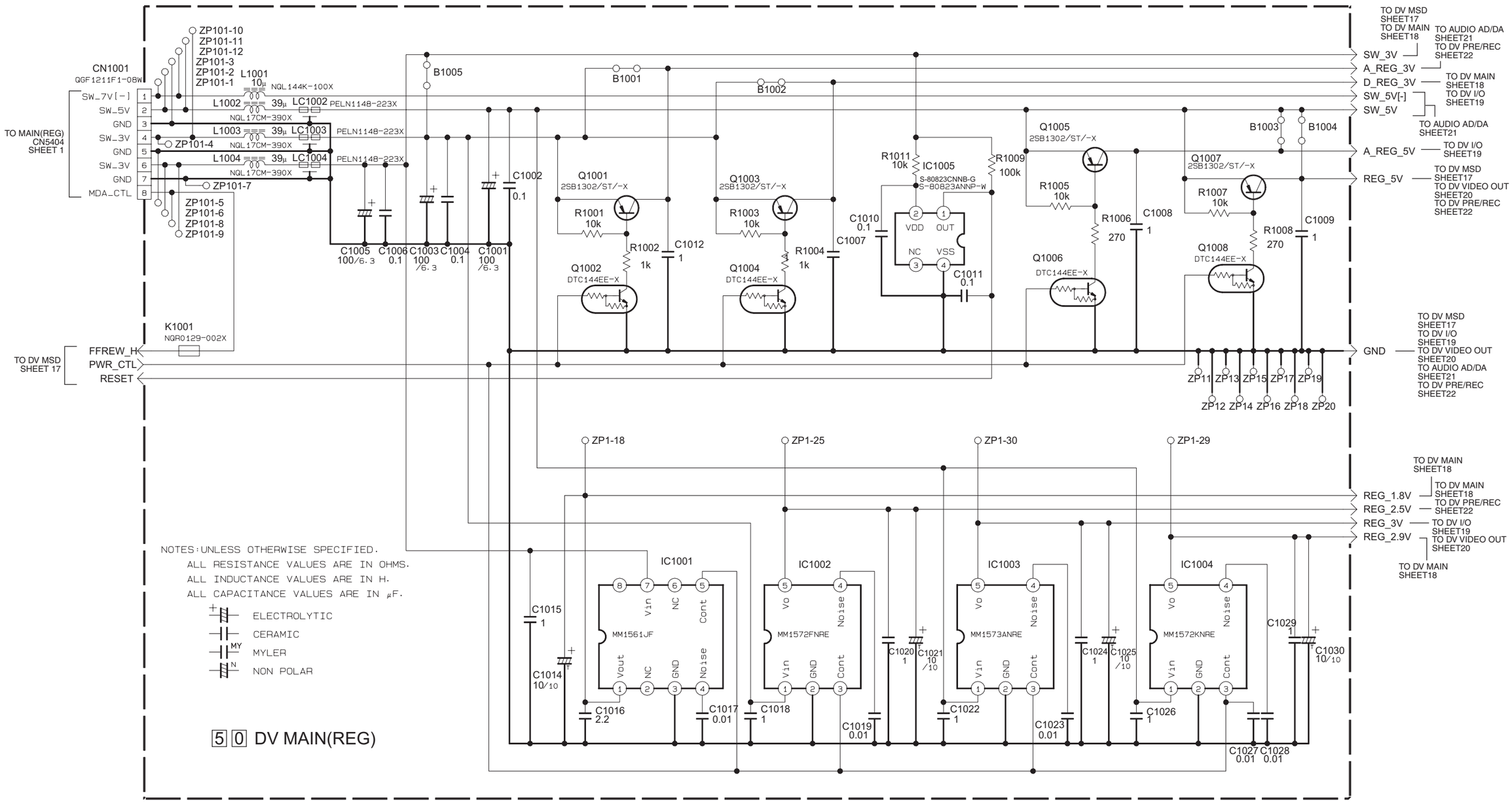
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10711001a_rev0

SHEET 15

■ DV MAIN(REG) SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

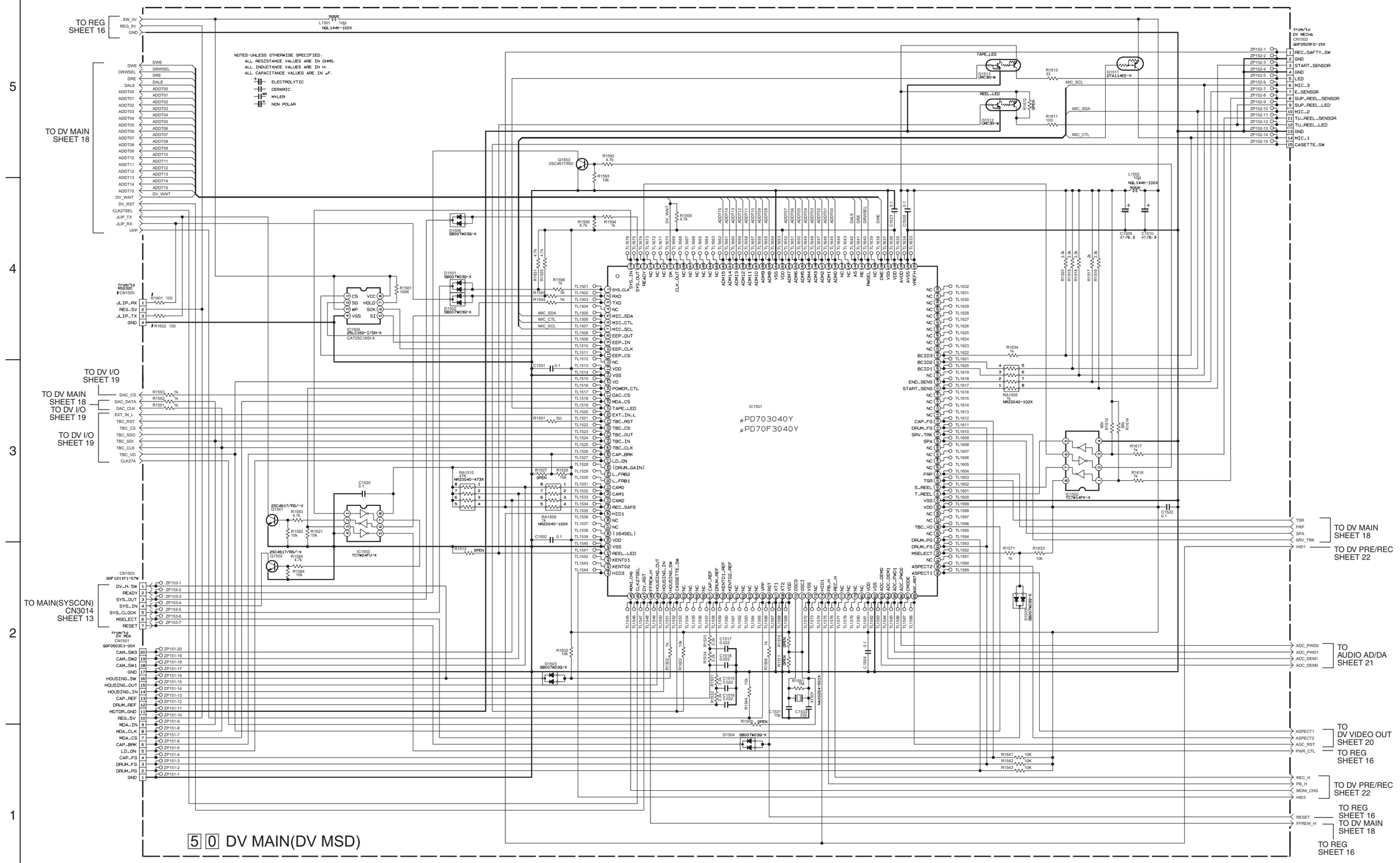
+ ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

5 0 DV MAIN(REG)

p30131001a_rev0

SHEET 16

■ DV MAIN(DV MSD) SCHEMATIC DIAGRAM



p10691001a_rev0

SHEET 17

■ DV MAIN(DV MAIN) SCHEMATIC DIAGRAM

5 0 DV MAIN(DV MAIN)

IC2001

JCY0152

[DVMAIN]

TO DV MSD SHEET 17

TO DV I/O SHEET 19

TO AUDIO AD/DA SHEET 21

TO JUNCTION(VIDEO) CN7127 SHEET 23

TO DV PRE/REC SHEET 22

TO REG SHEET 16

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10692001a_rev0

SHEET 18

■ DV MAIN(DV I/O) SCHEMATIC DIAGRAM

TO DV VIDEO OUT SHEET 20: Y_GCTL, C_GCTL, DV_Y, DV_C, Y/V_IN, C_IN

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

IC3151 M62366GP-X: VrefU, AO10, AO9, AO8, AO7, AO6, AO5, AO4, AO3, VrefL, Vcc, AO11, AO12, DO, LD, CLK, DI, AO1, AO2, GND

TO DV PRE/REC SHEET 22: AGC_GAIN, DUMP_CTL, ATF_GAIN, RECCADJ

TO DV MSD SHEET 17: EXT_IN_L, DAC_DATA, DAC_CLK, DAC_CS, TBC_VD, TBC_RST, TBC_CS, TBC_CLK, TBC_SDI, TBC_SDO

IC3001 JCP8029: AVSS(D/A), AVDD(D/A), IREF1, YCOUT, ABAR1, COMP1, YSOUT, VREF1, AVSS(D/A), AVDD(D/A), CLPY, VYIN, AVSS(A/D), AVDD(A/D), VRM, VRL, VRH, CIN, AVSS(A/D), SCANMODE; COUT, VREF2, CBOUT, COMP2, ABAR2, CROUT, IREF2, AVDD, AVSS, VBLK, BLK2, BLK1, VB, VG, VR, VC2, VC1, VDD(I/O), VSS, CLKOSC; VDOUT, HDOUT, CSYNC, AMUTE, ZCNT, RST, CLK, VDD(CORE), VSS, CS, SCLK, SDIN, SDOUT, ADDATEST, RAMTEST, YSI3, YSI2, YSI1, YSI0, CSI3; SCANEN, VSS, VDD(CORE), OUTH, OUTV, CSO0, CSO1, CSO2, CSO3, VSS, VDD(I/O), YSO0, YSO1, YSO2, YSO3, INH, INV, CSI0, CSI1, CSI2

TO DV MSD SHEET 17 / TO DV MAIN SHEET 18: CLK27A

TO DV MAIN SHEET 18: DYI3, DYI2, DYI1, DYI0, DCI3, DCI2, DCI1, DCI0, OUTV, OUTH, DYO3, DYO2, DYO1, DYO0, DCO3, FSPLLCTL, M_VCOCTL, DCO2, DCO1, DCO0, INV, INH, PBVCOCTL

TO REG SHEET 16: REG_3V, A_REG_5V, A_REG_5V, D_REG_3V

TO REG SHEET 16: GND

5 0 DV MAIN(DV I/O)

p20453001a_rev0

SHEET 19

■ DV MAIN(DV VIDEO OUT) SCHEMATIC DIAGRAM

5 0 DV MAIN(DV VIDEO OUT)

TO REG SHEET 16: A_REG_5V, REG_3V, GND

L3521 10µ NQL144K-100X

L3522 10µ NQL144K-100X

C3521 100 /6.3

C3523 22 /6.3

C3515 22/6.3

C3513 0.1

C3510 0.1

R3513 OPEN

R3514 OPEN

R3516 0Ω

C3511 0.1

R3515 68

IC3501 NJM2538V-X [VIDEO_AMP]

C3514 0.1

C3501 0.1

C3508 22p

R3556 470

R3557 0Ω

R3555 470

R3558 OPEN

C3552 0.1

Q3522 2SA1576A/RS/

B3502 OPEN

[POST FILTER]

C3537 15p

R3527 4.7k

NQL024J-270X

L3533 12µ

L3534 27µ

R3529 1k

Q3503 2SA1576A/RS/-X

R3526 680

NQL024J-120X

C3536 12p

C3538 47p

C3539 39p

R3528 10k

C3540 0.1

[POST FILTER]

C3532 15p

R3522 4.7k

NQL024J-270X

R3524 1k

Q3502 2SA1576A/RS/-X

R3521 620

L3531 12µ

L3532 27µ

NQL024J-120X

C3531 12p

C3533 47p

C3534 39p

R3523 10k

C3535 0.1

TO DV I/O SHEET 19: DV_C, DV_Y, C_GCTL, Y_GCTL

TO DV MSD SHEET 17: ASPECT1, ASPECT2, AGC_RST

R3552 470

R3553 0Ω

R3551 470

R3554 OPEN

Q3521 2SA1576A/RS/

C3551 0.1

R3507 OPEN

R3506

R3504 120

68

C3505 10 /6.3

C3506 22/6.3

R3505 OPEN

R3503 10k

C3507 22p

R3533 20k

R3534 10k

B3501 OPEN

ZP351-2

ZP351-1

ZP351-3

ZP351-5

ZP351-7

R3548 1.5k

R3544 390

R3546 1.5k

R3547 1.5k

R3545 390

R3549 1.5k

CN3501 QGF1211F1-07X

1 D_Y_OUT
2 GND
3 D_C_OUT
4 GND
5 D_Y/V_IN
6 GND
7 D_C_IN

TO MAIN (VIDEO SW DV) CN501 SHEET 9

C_IN, Y/V_IN → TO DV I/O SHEET 19

Q3501 DTC144EE-X

R3502 10k

C3502 0.1

C3503 0.1

R3501 2.2M

C3504 22/6.3

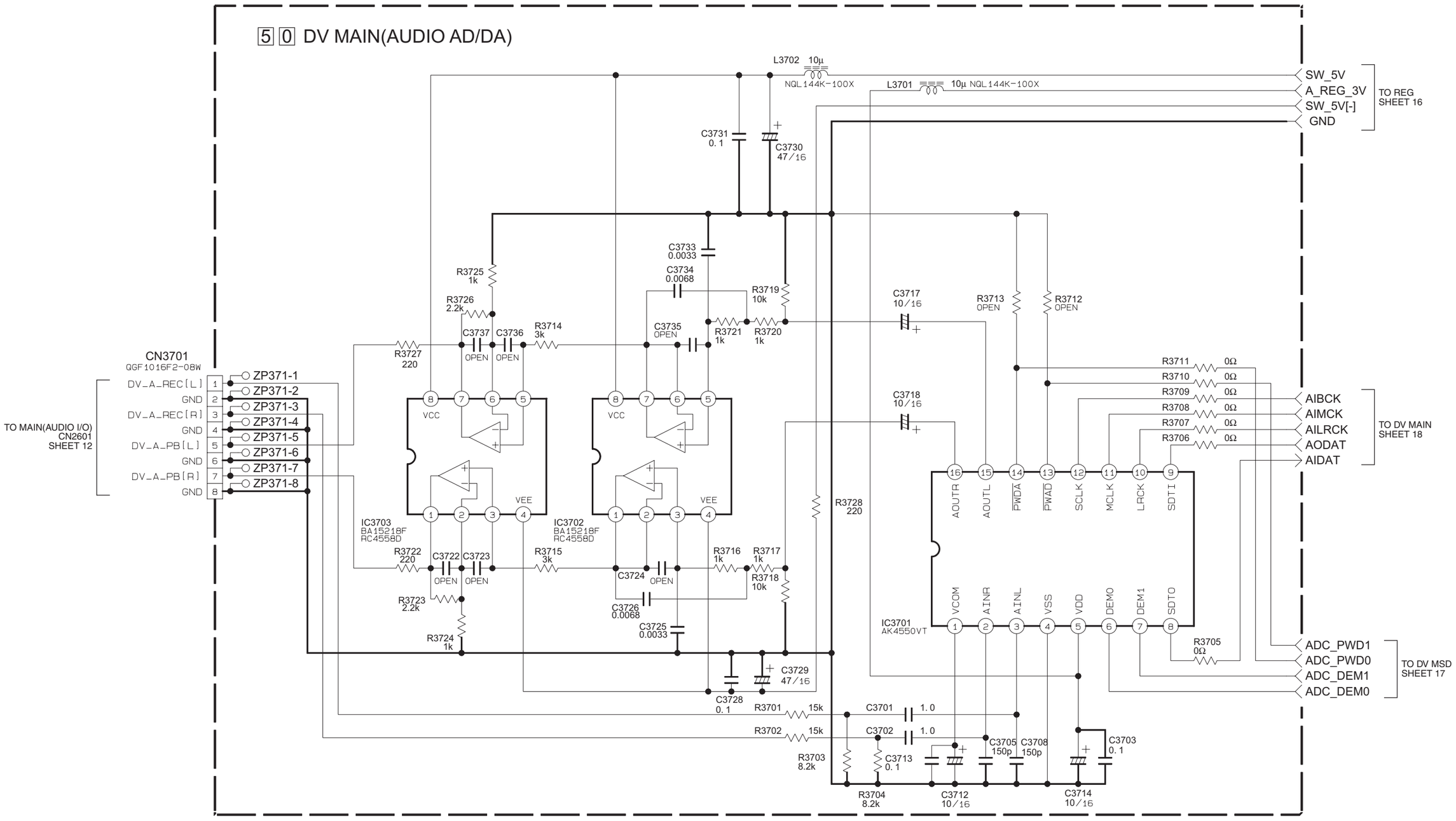
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20454001a_rev0

SHEET 20

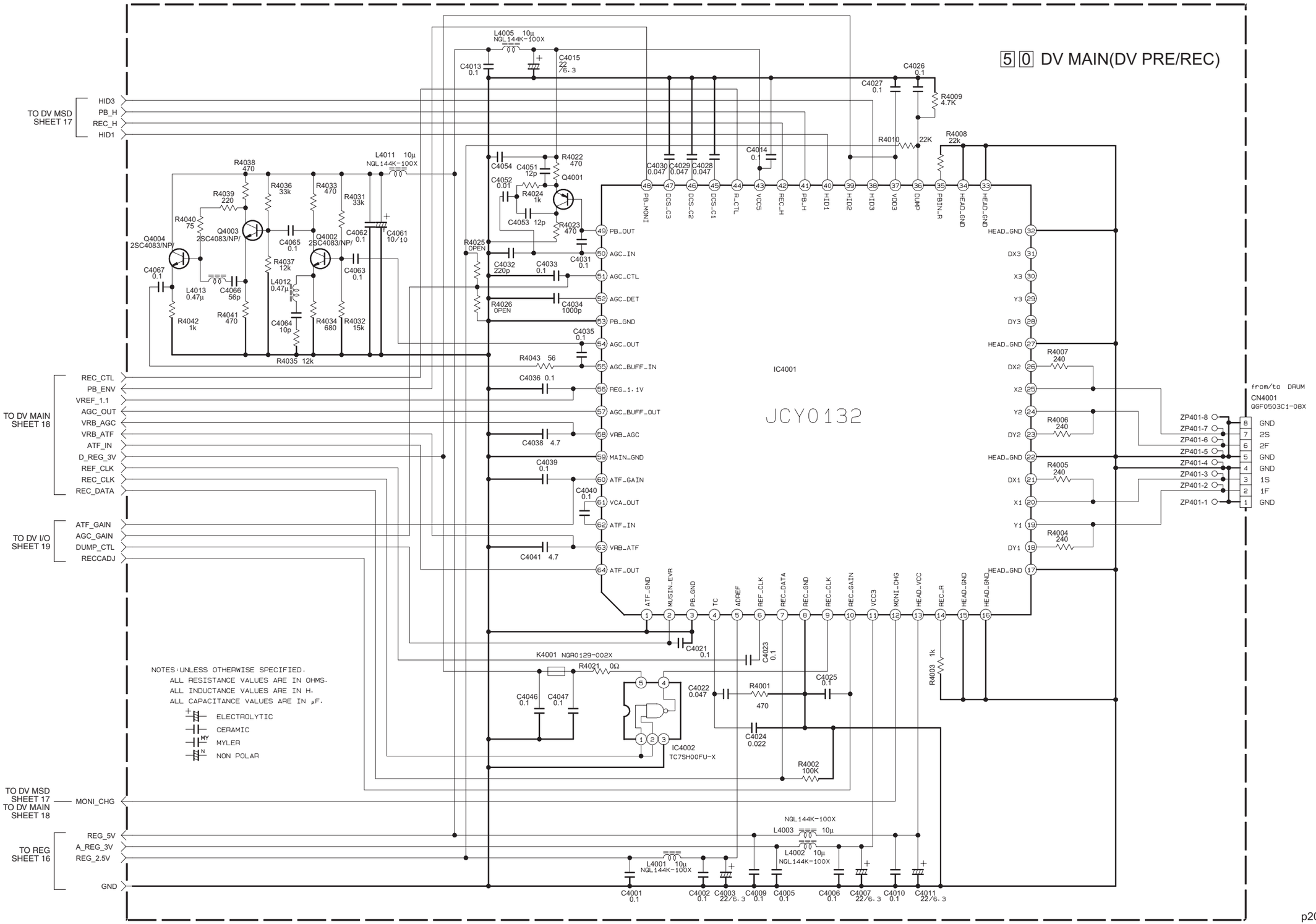
■ DV MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN µF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(µF)/RATED VOLTAGE (V).

■ DV MAIN(DV PRE/REC) SCHEMATIC DIAGRAM



p20455001a_rev0

SHEET 22

■ JUNCTION(VIDEO) SCHEMATIC DIAGRAM

TO JUNCTION(AUDIO AD/DA) SHEET 24

TO DIGITAL(VIDEO IF) CN1001 SHEET 2

TO MAIN(VIDEO SW VDR) CN701 SHEET 10

TO DIGITAL(VIDEO IF) CN1002 SHEET 2

TO JUNCTION (AUDIO AD/DA) SHEET 24

TO MAIN(SYSCON) CN3103 SHEET 13

TO JUNCTION(REG) SHEET 1

TO SW/DISPLAY CN7002 SHEET 15

TO DIGITAL(1394 RHY) CN1802 SHEET 6

NOT USED

TO MAIN(TERMINAL I/O) CN901 SHEET 11

TO DIGITAL (MEDIA PROCESSOR) CN1402 SHEET 4

NOT USED

TO JACK CN4104 SHEET 15

TO DV MAIN CN2002 SHEET 18

92 JUNCTION(VIDEO)

DIFFERENCE TABLE [#.##.### SYMBOLS]

	##SYMBOLS	B7121-B7125	R7146	R7147	R7148-R7150	CN7103	CN7107	CN7102
DOM	O	×	75	75	20	×	1-13pin	1-19pin
PAL	×	O	×	0	0	O	5-13pin	1-15pin
US	O	×	0	0	20	O	1-13pin	1-15pin

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

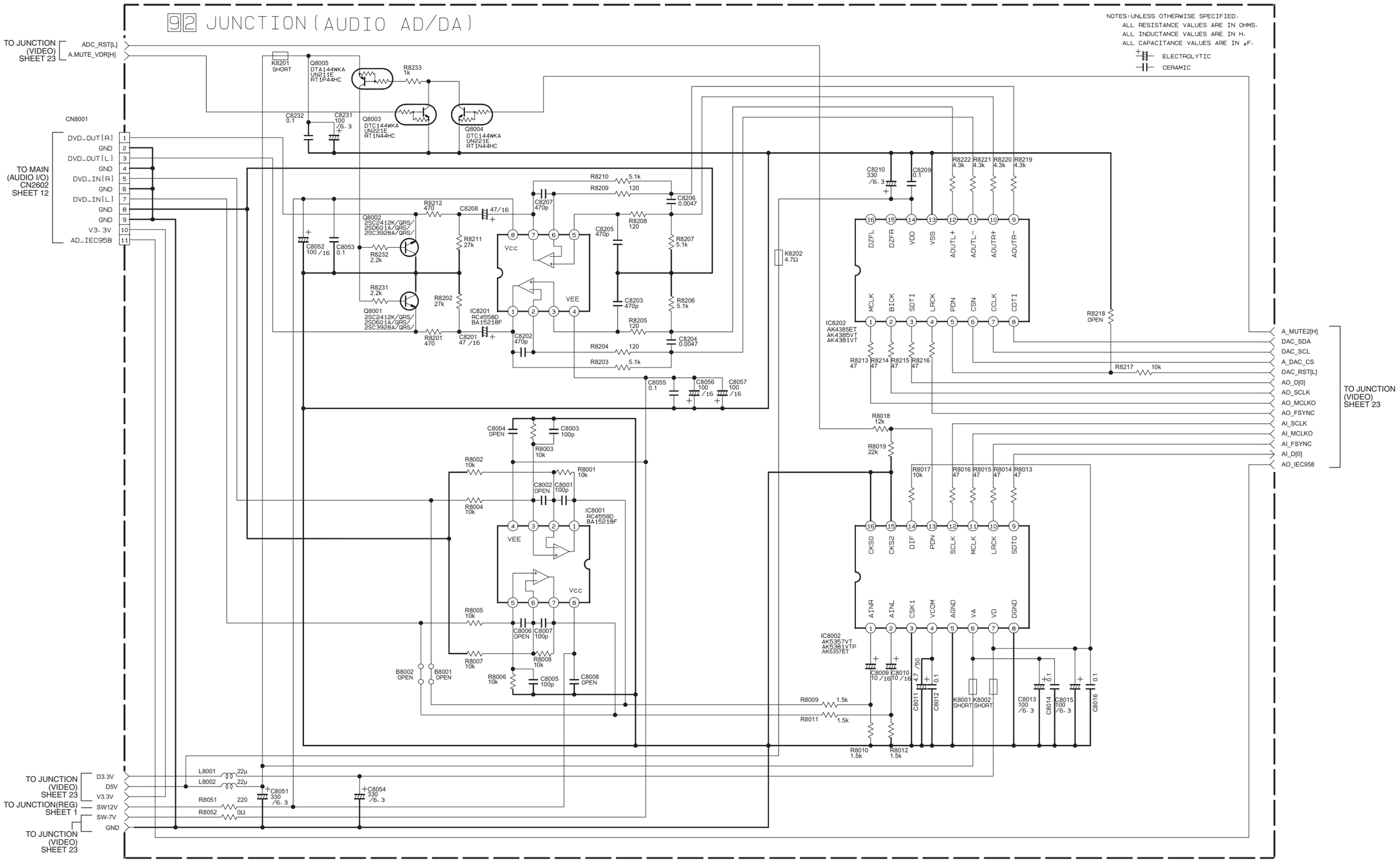
p20456001a_rev0

SHEET 23

2-49

2-50

■ JUNCTION(AUDIO AD/DA) SCHEMATIC DIAGRAM



p20451001a_rev0

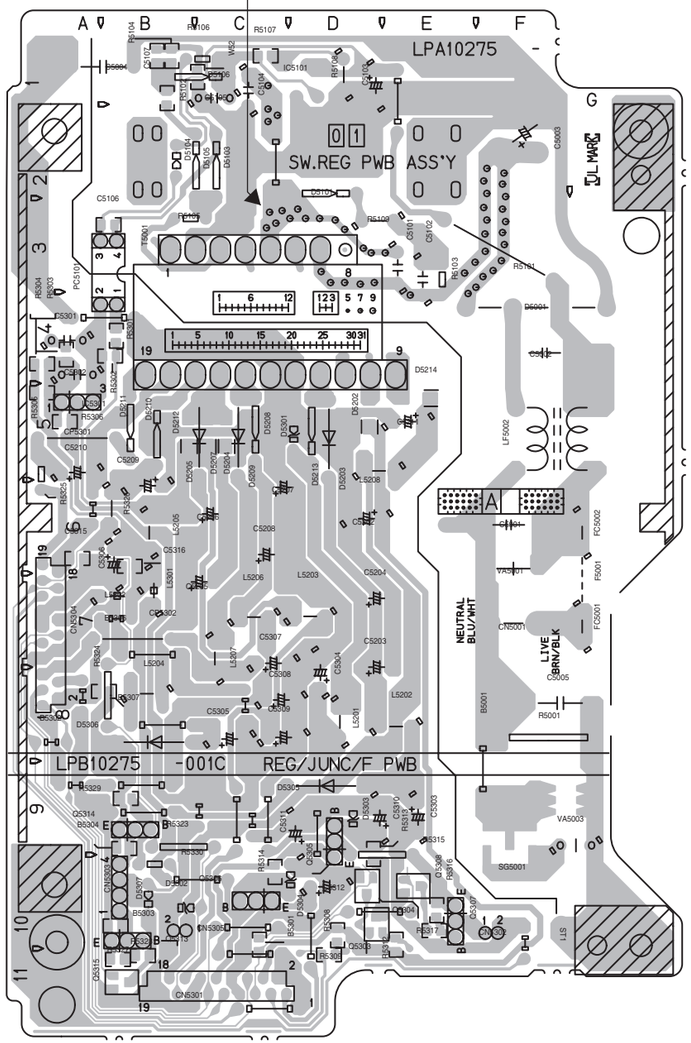
SHEET 24

■ SWITCHING REGULATOR CIRCUIT BOARD

DANGEROUS VOLTAGE

CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
REPLACER PAR DES FUSIBLE DE MEME TYPE.

<01>SWITCHING REGULATOR LPB10275-001C

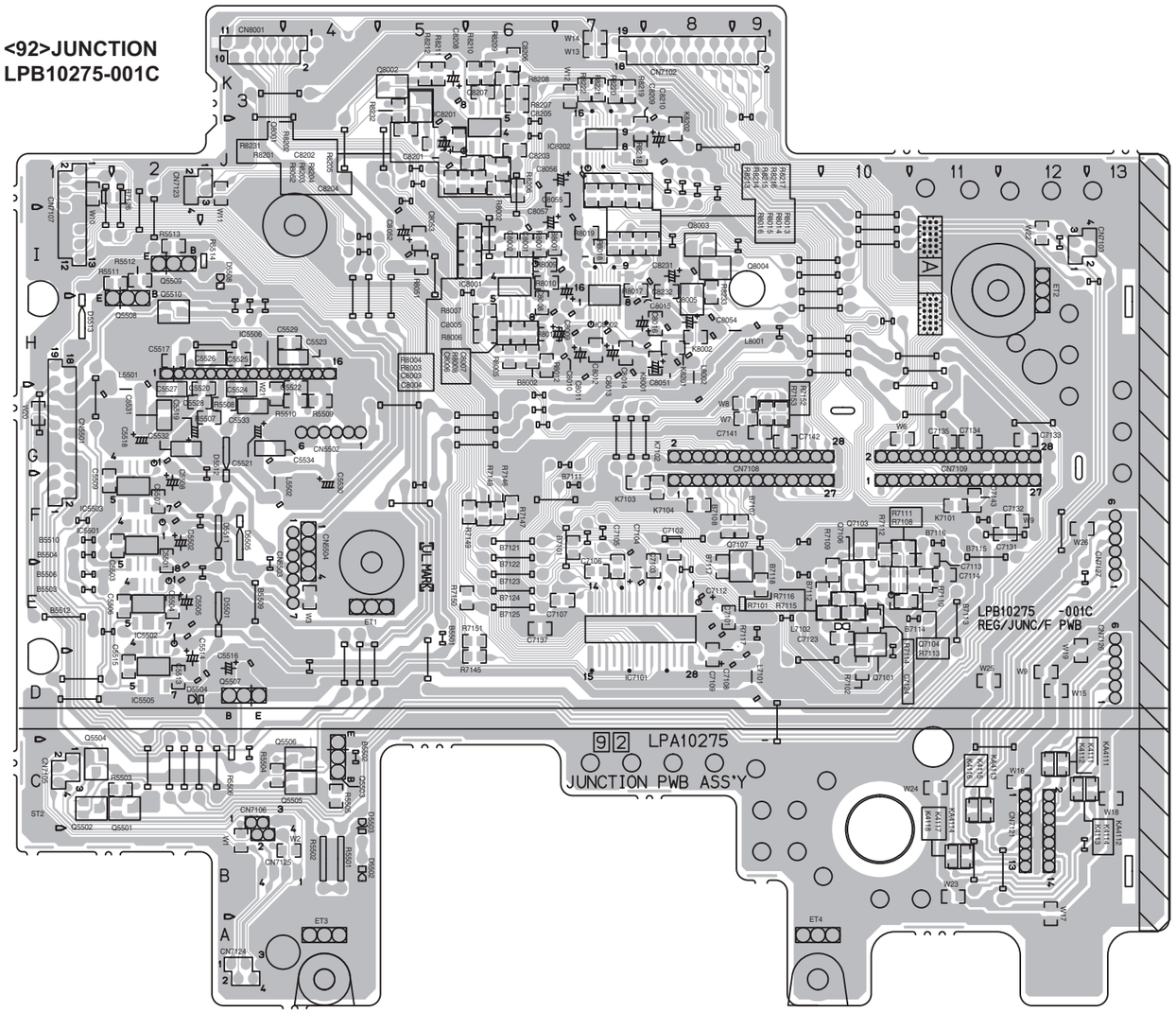


COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR> LPB10275-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C5306	A D 6B	D5205	A D 5C	L5204	A D 8B	R5107	B C 1C	CP5302	A D 7A
C5001	A D 6F	C5307	A D 7C	D5207	B C 5C	L5205	A D 6B	R5108	A D 1D	FC5001	A D 7G
C5002	A D 4F	C5308	A D 8C	D5208	A D 5C	L5206	A D 7C	R5109	A D 3D	FC5002	A D 6G
C5003	A D 2F	C5309	A D 8C	D5209	A D 5C	L5207	A D 7C	R5301	B C 4B	LF5002	A D 5F
C5004	A D 1B	C5310	A D 9D	D5210	A D 5B	L5208	A D 5E	R5302	B C 4B	PC5101	A D 4B
C5005	A D 8F	C5311	A D 9D	D5211	A D 5B	L5301	A D 7B	R5303	B C 4A	SG5001	B C 9F
C5101	A D 3E	C5312	A D 10D	D5212	B C 5B	L5302	A D 7B	R5304	B C 4A	T5001	A D 3B
C5102	A D 4E	C5315	B C 6A	D5213	A D 5D			R5305	B C 5A	VA5001	A D 6F
C5103	A D 1D	C5316	B C 6B	D5214	B C 5E	**TRNASISTOR**		R5306	B C 5A	VA5003	A D 9G
C5104	A D 1C			D5301	A D 5D	Q921	B C 13S	R5308	B C 10D		
C5105	A D 1C	**CONNECTOR**		D5302	A D 10C	Q5303	B C 10D	R5309	B C 11D		
C5106	B C 3B	CN5001	A D 7F	D5303	A D 9D	Q5304	B C 10D	R5312	B C 10E		
C5107	B C 1B	CN5301	A D 11C	D5304	A D 10D	Q5305	A D 10D	R5313	B C 9D		
C5202	A D 6E	CN5302	A D 10F	D5305	A D 9D	Q5306	A D 10C	R5314	B C 10C		
C5203	A D 8D	CN5303	A D 10B	D5306	A D 8B	Q5307	A D 10E	R5315	A D 10D		
C5204	A D 7D	CN5304	A D 8A	D5307	A D 10B	Q5308	B C 10E	R5316	B C 10E		
C5205	A D 7B	CN5305	A D 10B			Q5313	A D 10B	R5317	B C 10E		
C5206	A D 6C			**FUSE**		Q5314	A D 9B	R5323	A D 9B		
C5207	A D 6C	**DIODE**		F5001	A D 7G	Q5315	B C 11B	R5324	A D 8B		
C5208	A D 6C	D5001	A D 4E					R5325	A D 5A		
C5209	A D 6B	D5101	A D 2D	**IC**		**RESISTOR**		R5326	A D 6B		
C5210	A D 5A	D5103	A D 2C	IC5101	A D 1C	R5001	A D 8F	R5327	B C 11B		
C5211	A D 5E	D5104	A D 2B	IC5301	A D 5A	R5101	A D 3F	R5328	B C 11B		
C5301	A D 4A	D5105	A D 2C			R5102	B C 1B	R5329	B C 9B		
C5302	A D 4A	D5106	A D 1B	**COIL**		R5103	A D 4E	R5330	A D 10B		
C5303	A D 9E	D5202	B C 5D	L5201	A D 8D	R5104	B C 1B				
C5304	A D 8D	D5203	A D 5D	L5202	A D 8D	R5105	A D 3C	**OTHER**			
C5305	A D 8C	D5204	B C 5C	L5203	A D 7D	R5106	A D 1C	CP5301	A D 5B		

■ JUNCTION CIRCUIT BOARD

<92>JUNCTION LPB10275-001C

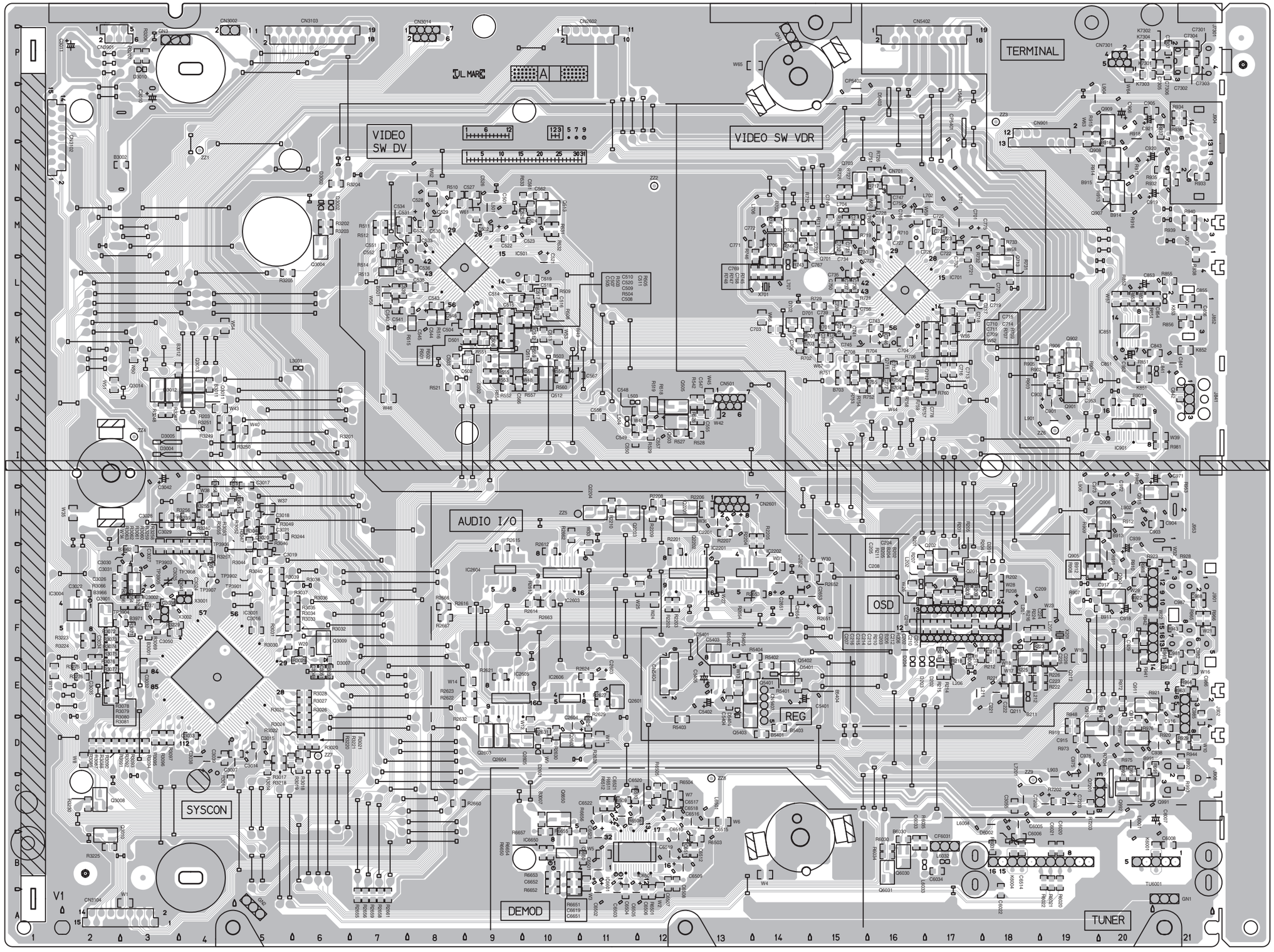


COMPONENT PARTS LOCATION GUIDE <JUNCTION> LPB10275-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C5531	B C 2G	C8002	B C 6I	C8207	B C 6K	DIODE		L8001	A D 9H	R5503	B C 2C	R7149	B C 6F	R8203	B C 6J	K4103	B C 8B
C5501	B C 2F	C5532	B C 2G	C8003	B C 6I	C8208	A D 5K	D5501	A D 3E	L8002	A D 8G	R5504	B C 3C	R7150	B C 6E	R8204	B C 6J	K4104	B C 8C
C5502	A D 2F	C5533	B C 3G	C8004	B C 6I	C8209	B C 8J	D5502	A D 4B			R5505	B C 4C	R7151	B C 6E	R8205	B C 6J	K4105	B C 6B
C5503	B C 2F	C5534	B C 3G	C8005	B C 6H	C8210	A D 8J	D5503	A D 4C	**TRANSISTOR**		R5506	A D 3D	R7152	B C 9G	R8206	B C 6J	K4106	B C 6B
C5504	B C 2E	C7101	B C 9E	C8006	B C 6H	C8231	A D 8I	D5504	A D 2D	Q5501	B C 2C	R5507	B C 3G	R7153	B C 9G	R8207	B C 6K	K4111	B C 12C
C5505	A D 2E	C7102	B C 8F	C8007	B C 6H	C8232	B C 8I	D5505	A D 3E	Q5502	B C 1C	R5508	B C 3G	R8001	B C 6I	R8208	B C 6K	K4112	B C 12C
C5506	B C 2E	C7103	B C 8E	C8008	B C 6H			D5508	A D 3I	Q5503	A D 4D	R5509	B C 4G	R8002	B C 6I	R8209	B C 6K	K4113	B C 12C
C5507	B C 2F	C7104	A D 8E	C8009	A D 7H	**CONNECTOR**		D5511	A D 3F	Q5504	B C 1C	R5510	B C 4G	R8003	B C 6I	R8210	B C 6K	K4114	B C 13C
C5508	A D 2G	C7105	B C 7E	C8010	A D 7H	CN4104	A D 6B	D5512	A D 3G	Q5505	B C 4C	R5511	B C 2I	R8004	B C 6I	R8211	B C 5K	K4115	B C 11C
C5509	B C 2F	C7106	B C 7E	C8011	A D 7H	CN5501	A D 1F	D5513	A D 1H	Q5506	B C 4C	R5512	B C 2I	R8005	B C 6H	R8212	B C 5K	K4116	B C 11C
C5513	B C 2D	C7107	B C 7E	C8012	B C 7H	CN5502	A D 4G			Q5507	A D 3D	R5513	B C 2I	R8006	B C 6H	R8213	B C 7J	K4117	B C 11B
C5514	A D 3E	C7108	A D 9D	C8013	A D 7H	CN5503	A D 4F	**IC**		Q5508	A D 2I	R5514	A D 3I	R8007	B C 6H	R8214	B C 7J	K4118	B C 11B
C5515	B C 2D	C7109	B C 8D	C8014	B C 7H	CN5504	A D 4F	IC5501	B C 2F	Q5509	A D 2I	R7101	B C 10E	R8008	B C 6H	R8215	B C 7J	K7101	B C 11F
C5516	A D 3D	C7112	A D 8E	C8015	A D 8H	CN7102	A D 9K	IC5502	B C 2E	Q5510	B C 2H	R7102	B C 10D	R8009	B C 6I	R8216	B C 7J	K7102	B C 8F
C5517	B C 2H	C7113	B C 11F	C8016	B C 8H	CN7103	A D 12I	IC5503	B C 2F	Q7101	B C 10E	R7108	B C 11F	R8010	B C 7I	R8217	B C 8J	K7103	B C 8F
C5518	A D 2G	C7114	B C 11E	C8051	A D 8H	CN7105	A D 1C	IC5505	B C 2D	Q7103	B C 10F	R7109	B C 10E	R8011	B C 7H	R8218	B C 8J	K7104	B C 8F
C5519	A D 2G	C7123	B C 10E	C8052	A D 5I	CN7106	A D 3C	IC5506	A D 2H	Q7104	B C 10E	R7110	B C 11E	R8012	B C 7H	R8219	B C 7K	K8001	B C 8H
C5520	B C 3G	C7124	B C 10E	C8053	B C 5I	CN7107	A D 1J	IC7101	B C 8E	Q7106	B C 10E	R7111	B C 11F	R8013	B C 8I	R8220	B C 7K	K8002	B C 8H
C5521	A D 3G	C7131	B C 12F	C8054	A D 8H	CN7108	A D 8F	IC8001	B C 6I	Q7107	B C 9E	R7112	B C 10F	R8014	B C 8I	R8221	B C 7K	K8201	B C 8H
C5522	B C 4H	C7132	B C 12F	C8055	B C 7J	CN7109	A D 10F	IC8002	B C 7I	Q8001	B C 5K	R7113	B C 11E	R8015	B C 7I	R8222	B C 7K	K8202	B C 8J
C5523	B C 4H	C7133	B C 12G	C8056	A D 7J	CN7121	A D 12C	IC8201	B C 6J	Q8002	B C 5K	R7114	B C 10E	R8016	B C 7I	R8231	B C 5J	KA4111	B C 12C
C5524	B C 3G	C7134	B C 11G	C8057	A D 7I	CN7123	A D 3J	IC8202	B C 7J	Q8003	B C 8I	R7115	B C 10E	R8017	B C 8I	R8232	B C 5K	KA4112	B C 13C
C5525	B C 3H	C7135	B C 11G	C8201	A D 5J	CN7124	A D 3A			Q8004	B C 8I	R7116	B C 10E	R8018	B C 7I	R8233	B C 8I	KA4113	B C 11C
C5526	B C 3H	C7137	B C 6E	C8202	B C 6J	CN7125	A D 4B	**COIL**		Q8005	B C 8H	R7117	A D 9E	R8019	B C 7I			KA4114	B C 11B
C5527	B C 2G	C7141	B C 9G	C8203	B C 6J	CN7126	A D 13D	L5501	A D 2G			R7145	B C 6D	R8051	B C 5I	**OTHER**			
C5528	B C 3G	C7142	B C 9G	C8204	B C 6J	CN7127	A D 13E	L5502	A D 3F			R7146	B C 6F	R8052	B C 5J	J4112	A D 8B		
C5529	B C 4H	C7143	B C 11F	C8205	B C 6K	CN8001	A D 4K	L7101	A D 9D			R7147	B C 6F	R8201	B C 5J	K4101	B C 8B		
C5530	A D 4G	C8001	B C 6I	C8206	B C 6K			L7102	A D 10E			R7148	B C 6F	R8202	B C 6J	K4102	B C 8B		

■ MAIN CIRCUIT BOARD

<03>MAIN
LPB10277-001B



COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10277-001B

REF.NO.	LOCATION
CAPACITOR	
C201	B C 18F
C202	B C 18F
C203	B C 17F
C204	A D 17G
C205	B C 17G
C207	B C 16F
C208	B C 17G
C209	A D 18G
C210	B C 18F
C211	B C 18F
C212	B C 17F
C213	B C 17F
C214	B C 17F
C215	B C 17F
C216	B C 17F
C219	B C 16F
C221	A D 18E
C222	B C 18E
C223	B C 19E
C224	B C 19F
C225	B C 19F
C226	B C 19F
C501	A D 9M
C502	B C 9M
C503	B C 8K
C504	B C 9K
C505	B C 9K
C506	B C 9K
C507	B C 9K
C508	B C 9K
C509	B C 9K
C510	B C 9L
C511	B C 9K
C512	B C 10K
C513	B C 10K
C514	B C 10L
C515	B C 9L
C516	B C 10L
C517	B C 10L
C518	B C 10L
C519	B C 10L
C520	B C 9K
C521	A D 10L
C522	B C 9M
C523	A D 10M
C524	B C 10M
C525	B C 10M
C526	B C 9M
C527	B C 9N
C528	A D 8M
C529	A D 8M
C530	B C 8M
C531	B C 7M
C532	B C 7M
C533	B C 8M
C534	A D 8M
C535	B C 7M
C536	B C 8L
C537	B C 7L
C538	B C 8L
C539	B C 7L
C540	B C 7L
C541	B C 7L
C543	B C 8L
C544	B C 8K
C545	A D 8K
C546	B C 8K
C547	B C 13J
C548	B C 12J
C549	B C 12J
C550	B C 11I
C551	B C 7M
C552	B C 7M
C555	B C 13J
C556	B C 11J
C557	A D 12J
C561	B C 10M
C562	B C 10N
C566	B C 9J
C567	B C 10J
C701	A D 17M
C702	B C 17M
C703	B C 14K
C704	B C 16K
C705	B C 15K
C706	B C 14K
C707	B C 15K
C708	B C 15K
C709	B C 17K
C710	B C 17K
C711	B C 17K
C712	B C 16K
C713	B C 17K
C714	B C 17K
C715	B C 17K
C716	B C 17K
C717	B C 17L
C718	B C 17K
C719	B C 18L
C720	B C 17L
C721	B C 17M
C722	B C 17M
C723	B C 17M
C724	B C 17M
C725	B C 17M
C726	B C 16M
C727	B C 16M
C728	A D 16M
C729	A D 16M
C730	B C 15M
C731	B C 15M
C732	B C 15M
C733	B C 14M
C734	A D 15L
C735	B C 15L
C736	B C 15L
C737	B C 15L
C738	B C 15L
C739	B C 15K
C740	B C 15K
C741	B C 15K
C743	B C 16K
C745	A D 16K
C746	B C 16K
C747	B C 16N
C748	B C 15M
C749	B C 15M
C750	B C 15L
C751	B C 16N
C755	B C 16M
C756	B C 15L
C765	A D 16M
C767	B C 14L
C768	B C 14L
C769	B C 14L
C771	B C 14M
C772	A D 14M
C775	B C 18M
C777	B C 16J
C778	B C 17J
C841	A D 21K
C842	B C 21J
C843	B C 21K
C851	A D 20K
C852	B C 20K
C853	A D 20L
C854	B C 21L
C855	B C 21L
C856	B C 21L
C901	A D 19J
C902	B C 19J
C903	B C 21H
C904	A D 20H
C905	B C 20O
C906	A D 20O
C915	B C 19D
C916	A D 20D
C917	B C 20G
C918	A D 20F
C919	A D 20N
C920	A D 20N
C921	A D 20O
C929	B C 20F
C938	A D 20D
C939	A D 20G
C953	B C 20J
C971	A D 20I
C972	A D 20I
C973	B C 20H
C975	B C 19C
C976	A D 19D
C981	B C 21F
C982	B C 21F
C985	B C 21D
C986	B C 21E
C987	B C 21F
C988	B C 21G
C991	B C 20D
C2201	A D 13H
C2202	A D 13H
C2603	A D 11E
C2604	A D 10D
C2651	A D 14G
C2652	B C 14G
C2653	A D 15G
C2654	B C 14G
C3007	B C 5D
C3010	A D 3O
C3011	A D 2P
C3014	A D 5D
C3015	B C 5D
C3016	B C 5F
C3017	B C 5I
C3018	B C 5H
C3019	B C 5G
C3020	B C 5H
C3021	B C 5H
C3022	B C 2G
C3024	B C 4G
C3025	A D 3G
C3026	B C 3G
C3027	A D 3G
C3028	B C 3H
C3029	B C 3H
C3030	A D 3G
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C3033	B C 4D
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C3050	B C 3F
C3051	B C 6E
C3054	B C 3F
C3055	B C 18C
C5401	A D 14E
C5402	A D 13E
C5403	B C 13F
C5404	B C 13E
C5405	A D 13E
C6005	A D 18C
C6006	B C 18B
C6007	A D 21C
C6008	B C 21B
C6020	B C 19B
C6021	B C 19B
C6022	B C 18A
C6033	B C 16B
C6034	B C 17B
C6501	A D 11B
C6502	A D 11B
C6503	A D 11B
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C6518	B C 12C
C6519	A D 12B
C6520	A D 11C
C6521	A D 11C
C6522	A D 11C
C6523	A D 11B
C6619	B C 10B
C6650	B C 11B
C6651	B C 10A
C6652	B C 10B
C7202	A D 19C
C7203	A D 19C
C7301	B C 21P
C7302	B C 21P
C7303	B C 21P
C7304	B C 21P
C7305	B C 21P
C7306	B C 21P
C7307	B C 21P
CONNECTOR	
CN501	A D 13J
CN701	A D 16N
CN901	A D 19N
CN2601	A D 13H
CN2602	A D 10P
CN3002	A D 5P
CN3014	A D 8P
CN3102	A D 1N
CN3103	A D 5P
CN3104	A D 3A
CN3901	A D 2P
CN5402	A D 16P
CN5403	A D 14E
CN5404	A D 12E
CN7301	A D 20P
DIODE	
D201	A D 18G
D202	A D 17F
D203	A D 16F
D204	A D 16F
D501	B C 9K
D502	B C 9K
D701	B C 14K
D702	B C 14K
D2601	A D 10D
D3002	A D 6M
D3003	A D 6M
D3004	A D 4I
D3005	A D 4I
D3007	B C 6E
D3010	A D 3P
D5401	A D 14E
D5402	A D 17O
D5403	A D 16P
D5404	A D 13E
D6002	A D 18B
IC	
IC201	A D 18F
IC501	B C 8L
IC701	B C 16L
IC851	B C 20K
IC901	B C 20J
IC2201	B C 12G
IC2202	B C 13G
IC2603	B C 10G
IC2604	B C 9G
IC2605	B C 9E
IC2606	B C 10E
IC3001	B C 4E
IC3002	B C 3G
IC3004	B C 2F
IC5401	B C 13E
IC6501	B C 11B
IC6601	B C 11B
IC6650	B C 10B
COIL	
L201	A D 18F
L202	A D 16G
L205	A D 18F
L206	A D 17F
L211	A D 17E
L212	A D 18E
L501	A D 9N
L502	A D 8N
L503	A D 12J
L504	A D 11I
L701	A D 17M
L702	A D 17M
L703	A D 15M
L704	A D 15M
L706	A D 14M
L707	A D 14L
L841	A D 21K
L851	A D 21L
L901	A D 19J
L902	A D 20H
L903	A D 19C
L904	A D 19O
L906	A D 19H
L3001	A D 5K
L6001	A D 20B
L6004	A D 18C
L6032	A D 17B
L6033	A D 16B
L6501	A D 13C
L7201	A D 18C
TRANSISTOR	
Q201	B C 17G
Q202	B C 17G
Q211	B C 18E
Q212	B C 18F
Q503	B C 12J
Q505	B C 12J
Q511	B C 9K
Q512	B C 10J
Q513	B C 10M
Q701	B C 15M
Q703	B C 15N
Q704	B C 14M
Q705	B C 14M
Q706	B C 14M
Q711	B C 16K
Q712	B C 17J
Q713	B C 18L
Q901	B C 19J
Q902	B C 19K
Q904	B C 20G
Q905	B C 19G
Q906	B C 20H
Q907	B C 20N
Q908	B C 20N
Q909	B C 20O
Q911	B C 20E
Q912	B C 19D
Q913	B C 20D
Q914	B C 21H
Q915	B C 20C
Q991	B C 20C
Q992	B C 20C
Q2201	B C 12H
Q2202	B C 12H
Q2203	B C 11H
Q2204	B C 11H
Q2601	B C 11E
Q2602	B C 10D
Q2603	B C 9D
Q2604	B C 9D
Q2605	B C 9D
Q3004	B C 6M
Q3008	B C 2C
Q3009	B C 6F
Q3010	B C 2B
Q3011	B C 4J
Q3012	B C 3J
Q3013	B C 4J
Q3014	B C 3J
Q3901	B C 2F
Q5401	B C 13E
Q5402	B C 14E
Q5403	B C 13E
Q6030	B C 16B
Q6031	B C 16B
Q6650	B C 10C
Q7201	A D 20C
RESISTOR	
R201	B C 17G
R202	B C 18G
R203	B C 4J
R204	B C 18G
R205	B C 17G
R206	B C 18F
R207	B C 16G
R208	B C 18G
R209	B C 17G
R210	B C 17F
R211	B C 17G
R212	B C 18F
R213	B C 17F
R214	B C 17E
R215	B C 17E
R216	B C 18F
R217	B C 17F
R218	B C 17E
R221	B C 18E
R222	B C 19E
R223	B C 19F
R224	B C 18F
R225	B C 18E
R226	B C 19E
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R502	B C 9K
R503	B C 9K
R504	B C 9K
R505	B C 10K
R507	B C 10L
R508	B C 10L
R509	B C 10L
R510	B C 8N
R511	B C 7M
R512	B C 7M
R513	B C 7L
R514	B C 7L
R515	B C 8K
R516	B C 8K
R518	B C 12J
R519	B C 12J
R521	B C 8J
R526	B C 12J
R527	B C 12I
R528	B C 13I
R529	B C 12I
R531	B C 10M
R532	B C 10M
R533	B C 10M
R542	B C 12J
R551	B C 9K
R552	B C 9J
R553	B C 9J
R554	B C 9J
R555	B C 9J
R556	B C 10K
R557	B C 10J
R558	B C 10K
R559	B C 10K
R560	B C 10J
R701	B C 15K
R702	B C 15K
R703	B C 15K
R704	B C 16K
R706	B C 16K
R707	B C 17K
R708	B C 17L
R709	B C 17K
R710	B C 16M
R711	B C 15M
R712	B C 14M
R717	B C 16N
R718	B C 15M
R719	B C 15M
R721	B C 15L
R726	B C 16N
R727	B C 15N
R728	B C 15N
R729	B C 15L
R732	B C 18L
R733	B C 18M
R742	B C 14M
R743	B C 14L
R744	B C 14M
R745	B C 14L
R746	B C 14M
R747	B C 14L
R748	B C 14L
R751	B C 15J
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R753	B C 15J
R754	B C 15J
R755	B C 16J
R756	B C 16J
R757	B C 17J
R758	B C 16J
R759	B C 16J
R760	B C 17J
R851	B C 20K
R852	B C 20L
R853	B C 20L
R855	B C 21L
R856	B C 21K
R901	B C 19J
R902	B C 19K
R903	B C 19J
R904	B C 19J
R905	B C 19K
R906	B C 19K
R907	B C 19G
R908	B C 19G
R909	B C 19H
R910	A D 20G
R911	A D 20G
R912	A D 20H
R913	B C 20N
R914	B C 20N
R915	B C 19O
R916	A D 20M
R917	A D 20N
R918	A D 20O
R919	B C 19D
R920	B C 21D
R921	B C 21E
R922	B C 20G
R923	B C 20G
R928	B C 21G
R929	B C 21D
R932	B C 21N
R933	B C 21N
R934	B C 21O
R935	B C 21N
R936	B C 21O
R937	B C 21O
R938	B C 21M
R939	B C 21M
R940	B C 21M
R941	B C 20F
R942	B C 20F
R943	B C 21F
R944	B C 21D
R948	B C 19D
R953	B C 21H
R961	B C 21F
R962	B C 21E
R963	B C 21E
R964	B C 21E
R965	B C 21F
R966	B C 21F
R971	A D 20D
R972	B C 20E
R973	A D 19D
R974	B C 20E
R975	A D 20D
R976	B C 20D
R981	B C 21I
R982	A D 20H
R988	B C 20G
R991	B C 21D
R992	B C 20D
R993	B C 21C
R2201	B C 12G
R2202	B C 12F
R2203	B C 12F
R2204	B C 14H
R2205	B C 14H
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R2207	B C 13H
R2208	B C 12H
R2209	B C 12H
R2210	B C 11H
R2212	B C 10G
R2613	B C 10G
R2614	B C 10F
R2615	B C 9G
R2616	B C 9F
R2621	B C 9E
R2622	B C 9E
R2623	B C 9E
R2624	B C 11E
R2625	B C 11D
R2627	B C 11E
R2628	B C 11D
R2629	B C 11E
R2630	B C 10D
R2631	B C 10D
R2632	B C 9D
R2652	B C 15G
R2653	B C 14G
R2654	B C 13F
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R2656	B C 7A
R2658	B C 7A
R2659	B C 7A
R2660	B C 8C
R2661	B C 7A
R2662	B C 10H
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R3027	B C 6E
R3028	B C 6E
R3029	B C 6E
R3031	B C 5F
R3032	B C 6F
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R3034	B C 6F
R3035	B C 6F
R3036	B C 6G
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R3060	B C 4G
R3061	B C 4G
R3062	B C 4G
R3063	B C 3G
R3066	B C 3G
R3069	B C 3F
R3071	B C 3F
R3072	B C 2F
R3073	B C 2F
R3074	B C 2F
R3075	B C 2F
R3076	B C 2E
R3077	B C 2E
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R3081	B C 2E
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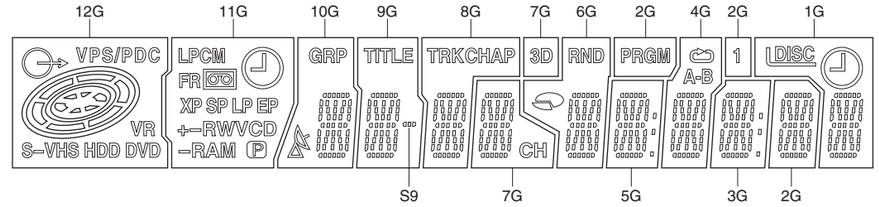
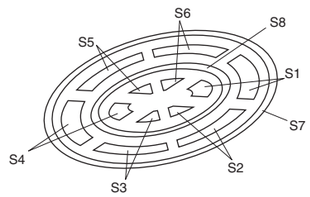
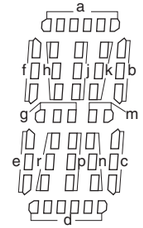
R3093	B C 3D
R3094	B C 3D
R3095	B C 3D
R3096	B C 3D
R3097	B C 3D
R3201	B C 6I
R3202	B C 6M
R3203	B C 6M
R3204	B C 6N
R3205	B C 5L
R3206	B C 3P
R3207	B C 3P
R3218	B C 5D
R3220	B C 6D
R3221	B C 6D
R3223	B C 2F
R3224	B C 2F
R3225	B C 2B
R3229	B C 3F
R3230	B C 2C
R3232	B C 6E
R3239	B C 4H
R3240	B C 4H
R3244	B C 5H
R3247	B C 3J
R3248	B C 3J
R3249	B C 4I
R3250	B C 4I
R3251	B C 4J
R3255	B C 4H
R3256	B C 4H
R3257	B C 4G
R3258	B C 4G
R3259	B C 4G
R3266	B C 3F
R3267	B C 3F
R3275	B C 2E
R3276	B C 2E
R5401	B C 14E
R5402	B C 14E
R5403	B C 12D
R5404	B C 14F
R5405	B C 13E
R6020	B C 19B
R6021	B C 19B
R6022	B C 19B
R6030	B C 16B
R6031	B C 18B
R6034	B C 16B
R6035	B C 16B
R6501	B C 12A
R6503	B C 13B
R6504	B C 12C
R6505	B C 12C
R6508	B C 11C
R6509	B C 11C
R6510	B C 11C
R6511	B C 11C
R6512	B C 11C
R6550	B C 10B
R6551	B C 10B
R6552	B C 10A
R7202	B C 19C
R7203	B C 19C
R7204	A D 20D
OTHER	
BT3001	A D 3N
CF6031	A D 17B
CP5401	A D 17N
CP5402	A D 15O
GN1	A D 21A
GN2	A D 4A
GN3	A D 3Q
GN4	A D 15Q
J841	A D 22J
J852	A D 22L
J901	A D 22F
J902	A D 22E
J903	A D 22M
J904	A D 22N
J906	A D 22C
J953	A D 22H
J7301	A D 22P
K851	B C 20J
K852	B C 21K
K853	B C 21L
K6001	B C 21B
K6004	B C 18B
K7301	B C 20P
K7302	B C 20P
K7303	B C 20P
K7304	B C 20P
PC016	B C 22P
PC01721	B C 3B
TP3901	B C 5G
TP3902	B C 5G
TP3903	B C 4G
TP3904	B C 3F
TP3905	B C 3G
TP3906	B C 4H
TP3907	B C 4G
TP3908	B C 4G
TU6001	A D 21B
X201	A D 19F
X701	A D 14L
X3001	A D 4G
X3002	A D 3F

■ FDP GRID ASSIGNMENT AND ANODE CONNECTION



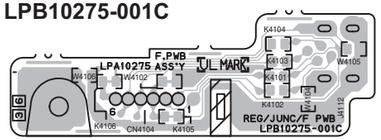




	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	VPS/PDC	LPCM	GRP	TITLE	TRK	3D	RND	col		col	1	
P2				S9	CHAP	CH		Dp	A-B	Dp	PRGM	DISC
P3	-		a	a	a	a	a	a	a	a		a
P4	S1	FR	h	h	h	h	h	h	h	h	h	h
P5	S2	XP	j	j	j	j	j	j	j	j	j	j
P6	S3	SP	k	k	k	k	k	k	k	k	k	k
P7	S4	LP	b	b	b	b	b	b	b	b	b	b
P8	S5	EP	f	f	f	f	f	f	f	f	f	f
P9	S6	+	m	m	m	m	m	m	m	m	m	m
P10	S7	–	g	g	g	g	g	g	g	g	g	g
P11	S8	R	c	c	c	c	c	c	c	c	c	c
P12	VR	W	e	e	e	e	e	e	e	e	e	e
P13	S–	V	r	r	r	r	r	r	r	r	r	r
P14	VHS	CD	p	p	p	p	p	p	p	p	p	p
P15	HDD	-RAM	n	n	n	n	n	n	n	n	n	n
P16	DVD	Ⓟ	d	d	d	d	d	d	d	d	d	d

■ JACK, OPERATION/JACK, DISPLAY/SWITCH AND D-SUB CIRCUIT BOARDS

<36>JACK
LPB10275-001C



<27>OPERATION/JACK
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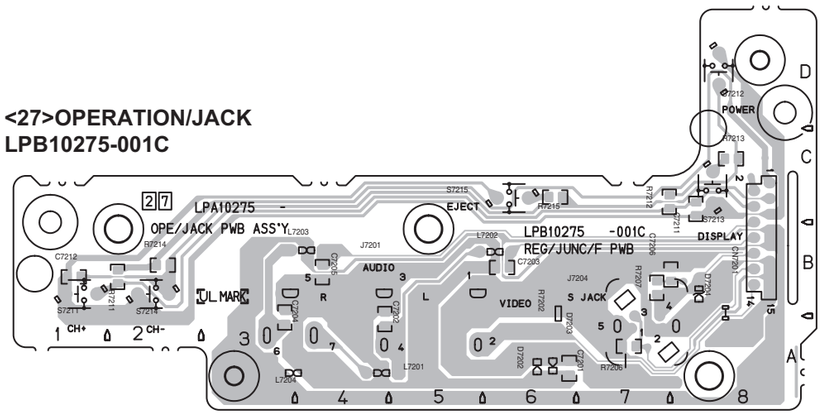

<97> D-SUB
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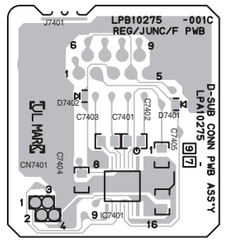
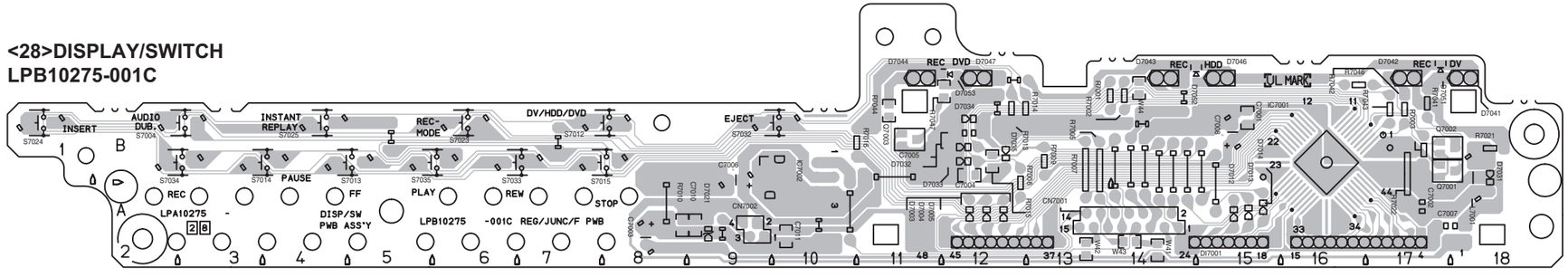


COMPONENT PARTS LOCATION GUIDE <OPERATION/JACK> LPB10275-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		**CONNECTOR**		L7202	A D 6B	R7213	B C 8C	S7214	A D 2B
C7201	B C 6A	CN7201	A D 9C	L7203	A D 4B	R7214	B C 2B	S7215	A D 6C
C7202	B C 4A			L7204	A D 3A	R7215	B C 6C		
C7203	B C 6B	DIODE							
C7204	B C 3A	D7202	A D 6A	**RESISTOR**		**OTHER**			
C7205	B C 4B	D7203	A D 6A	R7202	A D 6B	J7201	A D 4A		
C7206	B C 8B	D7204	A D 8B	R7206	B C 7A	J7204	A D 7A		
C7211	B C 8C			R7207	B C 7B	S7211	A D 1B		
C7212	B C 1B	**COIL**		R7211	B C 2B	S7212	A D 8D		
		L7201	A D 5A	R7212	B C 7C	S7213	A D 8C		

<28>DISPLAY/SWITCH
LPB10275-001C



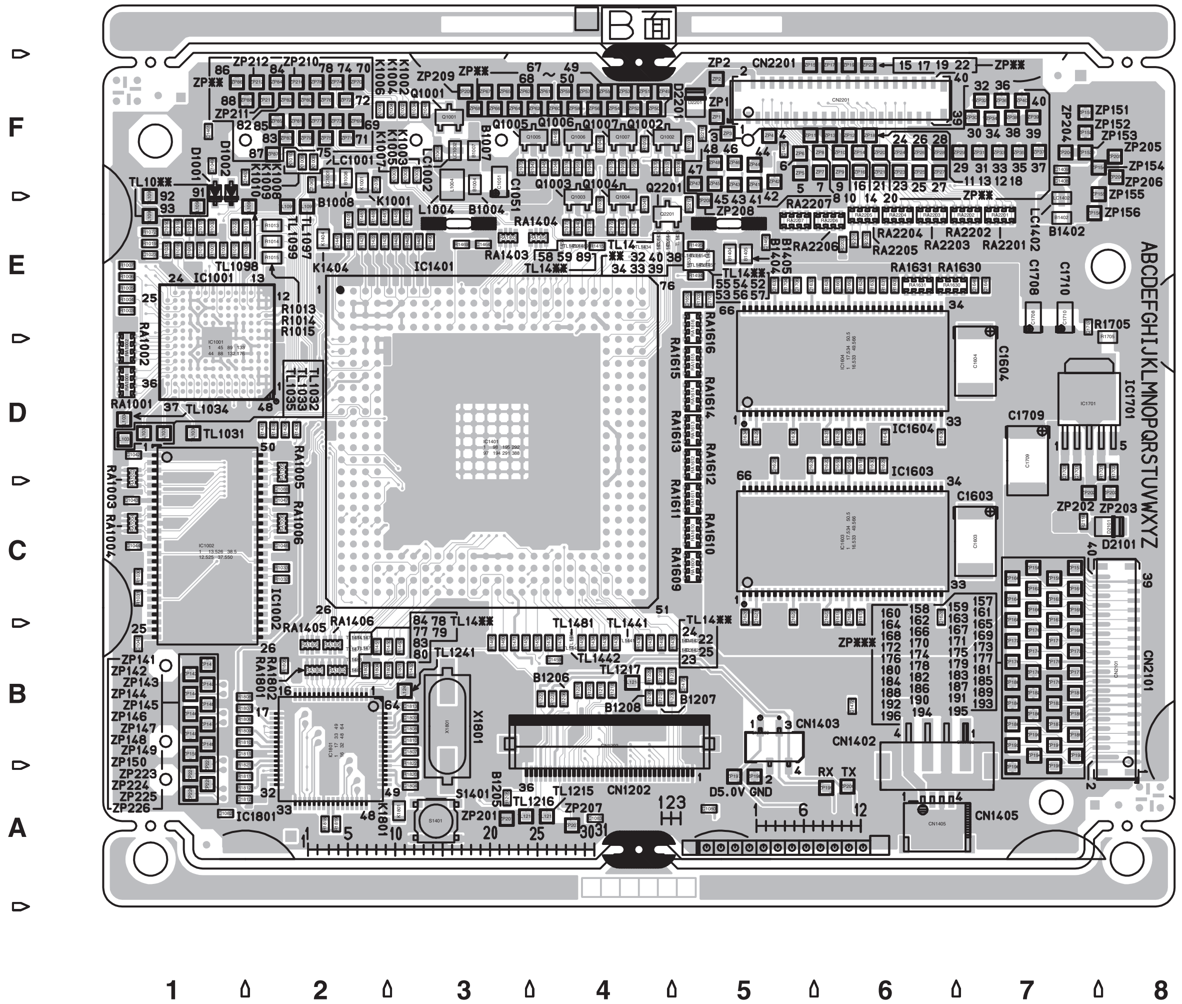
COMPONENT PARTS LOCATION GUIDE <DISPLAY/SWITCH> LPB10275-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		CN7001	A D 14A	D7033	A D 12B			**RESISTOR**		R7021	A D 18B	S7014	A D 4B
C7001	B C 15B	CN7002	A D 9A	D7034	A D 12B	**IC**		R7001	A D 13C	R7022	A D 17B	S7015	A D 8B
C7002	A D 17A			D7035	A D 12B	IC7001	B C 16B	R7002	A D 14C	R7041	A D 17B	S7023	A D 6B
C7003	A D 8A	**DIODE**		D7041	A D 18C	IC7002	A D 10B	R7003	A D 17B	R7042	A D 17B	S7024	A D 1B
C7004	B C 12B	D7003	A D 12A	D7042	A D 17C			R7005	A D 13B	R7043	A D 17B	S7025	A D 4B
C7005	A D 12B	D7004	A D 12A	D7043	A D 14C	**COIL**		R7006	A D 12B	R7044	B C 11B	S7032	A D 10B
C7006	A D 9B	D7005	A D 12A	D7044	A D 11C	L7001	A D 18A	R7007	A D 13B	R7046	A D 17C	S7033	A D 7B
C7007	A D 17A	D7012	A D 15A	D7046	A D 15C			R7009	A D 13B	R7047	B C 12C	S7034	A D 3B
C7008	A D 15B	D7013	A D 15A	D7047	A D 12C	**TRANSISTOR**		R7010	B C 8A			S7035	A D 6B
C7010	B C 9A	D7014	A D 15A	D7051	B C 17C	Q7001	B C 17B	R7013	A D 12C	**OTHER**			
C7011	B C 10A	D7021	A D 9A	D7052	B C 15C	Q7002	B C 17B	R7014	A D 12C	S7004	A D 3B		
		D7031	A D 18B	D7053	B C 12C	Q7003	B C 11B	R7015	B C 12B	S7012	A D 8B		
CONNECTOR		D7032	A D 12B	DI7001	A D 14B			R7016	A D 11B	S7013	A D 5B		

■ DIGITAL CIRCUIT BOARD

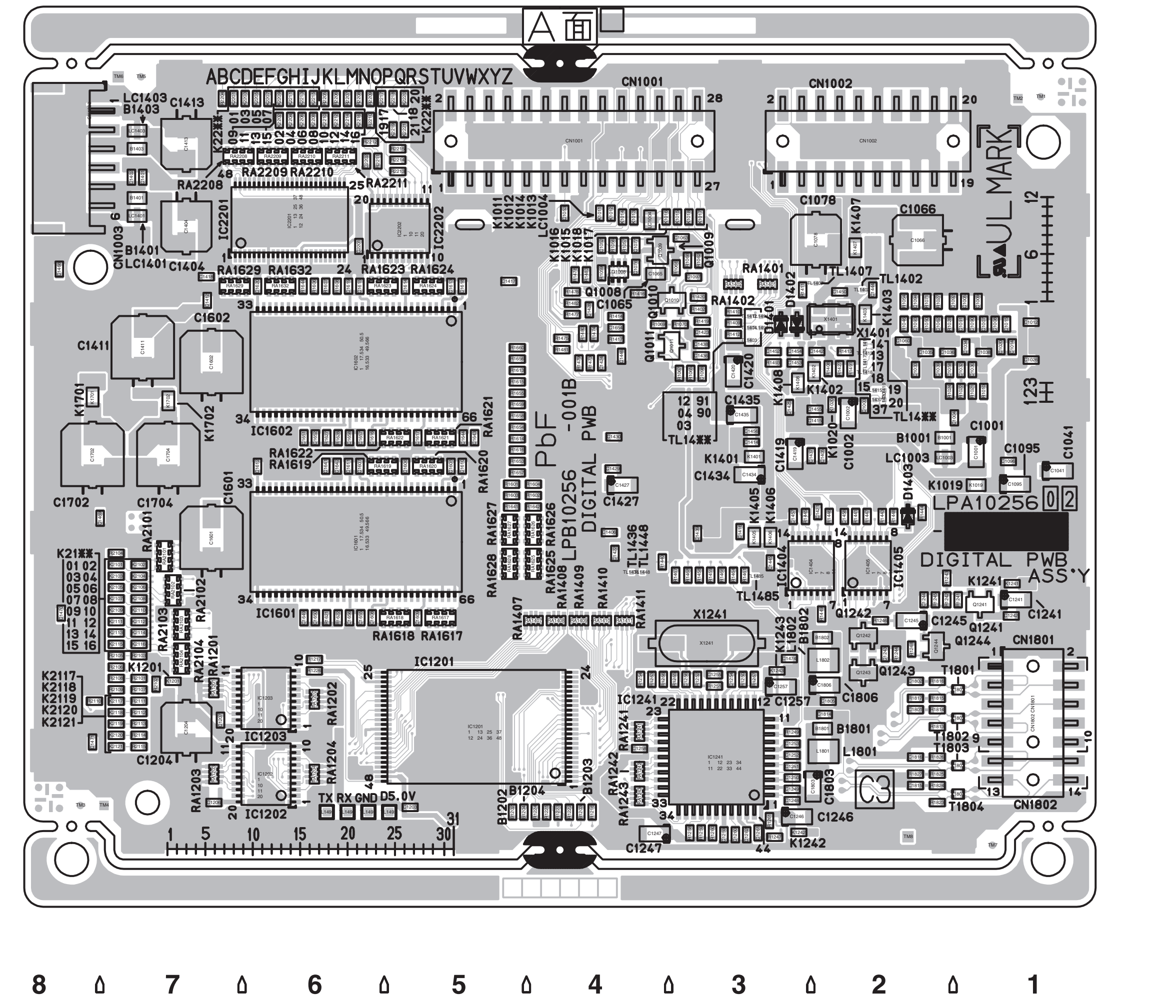
<02>DIGITAL
LPB10256-001B

-FOIL SIDE-



<02>DIGITAL
LPB10256-001B

-COMPONENT SIDE-



COMPONENT PARTS LOCATION GUIDE <DIGITAL> LPB10256-001B

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C1053	A C 4E	C1243	A C 2B	C1423	A C 3E	C1473	B C 5B
C1001	A C 1D	C1058	A C 2D	C1244	A C 2C	C1424	A C 4D	C1474	A C 3B
C1002	A C 2D	C1060	A C 2D	C1245	A C 2C	C1425	A C 3D	C1601	A C 7C
C1003	A C 2D	C1062	A C 2E	C1246	A C 3A	C1427	A C 4C	C1602	A C 7D
C1004	A C 1D	C1063	A C 3E	C1247	A C 4A	C1428	A C 4E	C1603	B C 7C
C1005	A C 1E	C1065	A C 4E	C1248	A C 3A	C1429	A C 4D	C1604	B C 7D
C1007	A C 1E	C1066	A C 2E	C1249	A C 3A	C1430	A C 4D	C1605	A C 5D
C1008	A C 1E	C1067	B C 2F	C1250	A C 3A	C1434	A C 3D	C1606	A C 5D
C1009	A C 1E	C1069	B C 3F	C1251	A C 3A	C1435	A C 3D	C1607	A C 6D
C1012	A C 1E	C1070	B C 4F	C1252	A C 3B	C1436	A C 3D	C1608	A C 6C
C1014	A C 1D	C1071	B C 4E	C1253	A C 3B	C1437	A C 3D	C1609	A C 5C
C1015	A C 1E	C1072	B C 4E	C1254	A C 3B	C1438	A C 3D	C1610	A C 5D
C1017	B C 1E	C1073	B C 3F	C1255	A C 3B	C1439	A C 3C	C1611	A C 6D
C1018	B C 1E	C1074	B C 4F	C1256	A C 3B	C1442	A C 2D	C1612	A C 6D
C1019	B C 1E	C1075	B C 4F	C1257	A C 3B	C1444	A C 2E	C1613	A C 5E
C1020	A C 1D	C1076	A C 4E	C1258	A C 4B	C1445	A C 3C	C1614	A C 5E
C1022	B C 1E	C1077	A C 4E	C1259	A C 3A	C1446	A C 4D	C1615	A C 6E
C1023	B C 1E	C1078	A C 2E	C1260	A C 3A	C1447	B C 2E	C1616	A C 6D
C1026	A C 1D	C1079	B C 2F	C1261	A C 3A	C1448	B C 2E	C1617	A C 5D
C1030	A C 1D	C1080	B C 5A	C1262	A C 3A	C1450	A C 2E	C1618	A C 5E
C1032	A C 1D	C1082	B C 1A	C1401	A C 7F	C1452	A C 3D	C1619	A C 6E
C1033	A C 2D	C1083	B C 4A	C1402	A C 7F	C1453	A C 3D	C1620	A C 6E
C1034	A C 1D	C1088	B C 2C	C1404	A C 7E	C1454	A C 3D	C1621	B C 5C
C1035	A C 2D	C1090	A C 1E	C1405	A C 2D	C1455	A C 2D	C1622	B C 5C
C1036	A C 2D	C1091	A C 1E	C1406	A C 4C	C1456	A C 3D	C1623	B C 6C
C1038	A C 1D	C1092	A C 2E	C1408	B C 7F	C1457	A C 3C	C1624	B C 5D
C1039	A C 2D	C1093	A C 2E	C1409	B C 7F	C1458	A C 2C	C1625	B C 5D
C1041	A C 1D	C1094	A C 2E	C1411	A C 7D	C1459	B C 4B	C1626	B C 5C
C1042	B C 1D	C1095	A C 1C	C1412	A C 7E	C1461	B C 1F	C1627	B C 6C
C1043	B C 1C	C1096	A C 1D	C1413	A C 7F	C1463	B C 2F	C1628	B C 6C
C1044	B C 1C	C1097	A C 3E	C1414	A C 3D	C1464	B C 3E	C1629	B C 5D
C1045	B C 1B	C1098	A C 3D	C1415	A C 2D	C1465	B C 4F	C1630	B C 5D
C1046	B C 2C	C1203	A C 5A	C1416	A C 3C	C1466	B C 5E	C1631	B C 6D
C1047	B C 2C	C1204	A C 7B	C1417	A C 5E	C1467	B C 5F	C1632	B C 5E
C1048	B C 3F	C1206	A C 7A	C1418	A C 7E	C1468	A C 8E	C1633	B C 5E
C1049	B C 1F	C1207	A C 7B	C1419	A C 3D	C1469	A C 8C	C1634	B C 5D
C1050	B C 1E	C1208	B C 4B	C1420	A C 3D	C1470	A C 8C	C1635	B C 6D
C1051	B C 3F	C1241	A C 1C	C1421	A C 2C	C1471	A C 8B	C1636	B C 6D
C1052	A C 4E	C1242	A C 1C	C1422	A C 4C	C1472	B C 6B	C1641	A C 6D

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C1643	A C 5D	C1812	B C 1A	IC1405	A C 2C	R1006	B C 1E	R1051	B C 4F
C1644	A C 5D	C1813	B C 3B	IC1601	A C 6C	R1007	B C 1E	R1052	B C 4F
C1645	B C 7E	C1814	A C 2B	IC1602	A C 6D	R1009	B C 1E	R1053	B C 4F
C1646	B C 7E	C1815	A C 2A	IC1603	B C 6C	R1010	A C 1D	R1054	A C 2E
C1649	A C 6C	C1816	A C 2B	IC1604	B C 6D	R1012	B C 1E	R1055	B C 4F
C1650	A C 6C	C2201	A C 6E	IC1701	B C 7D	R1013	B C 2E	R1056	A C 4E
C1651	A C 6D	C2202	A C 6F	IC1801	B C 2B	R1014	B C 2E	R1057	A C 4E
C1652	A C 6D			IC2201	A C 6E	R1015	B C 2E	R1059	A C 4E
C1653	B C 5E	**CONNECTOR**		IC2202	A C 5E	R1017	B C 2E	R1060	B C 1E
C1654	A C 4E	CN1001	A C 4F			R1018	B C 1E	R1061	B C 1E
C1655	A C 6C	CN1002	A C 2F	**COIL**		R1019	B C 1E	R1062	A C 3E
C1656	A C 6C	CN1003	A C 8F	L1004	B C 3F	R1020	B C 1E	R1065	A C 3D
C1657	A C 6D	CN1202	B C 4B	L1801	A C 2B	R1021	A C 1D	R1066	A C 3E
C1658	A C 6D	CN1402	B C 7B	L1802	A C 2B	R1022	A C 1D	R1067	A C 3D
C1659	B C 6D	CN1403	B C 5B			R1024	A C 2D	R1068	A C 3E
C1660	B C 6D	CN1405	B C 6A	**TRANSISTOR**		R1027	A C 2E	R1069	A C 4E
C1661	B C 6E	CN1801	A C 1B	Q1001	B C 3F	R1028	A C 2E	R1070	A C 3E
C1662	B C 6E	CN1802	A C 1B	Q1002	B C 4F	R1029	B C 2E	R1071	A C 2E
C1701	B C 7D	CN2101	B C 8B	Q1003	B C 4E	R1030	B C 1C	R1072	B C 1E
C1702	A C 8D	CN2201	B C 6F	Q1004	B C 4E	R1031	B C 1C	R1216	A C 4A
C1703	B C 7D			Q1005	B C 4F	R1032	B C 2C	R1217	A C 6B
C1704	A C 7D	**DIODE**		Q1006	B C 4F	R1033	B C 2C	R1218	B C 4B
C1705	B C 5E	D1001	B C 1F	Q1007	B C 4F	R1034	B C 3F	R1219	B C 4B
C1706	B C 5E	D1002	B C 1F	Q1008	A C 4E	R1035	B C 5F	R1220	B C 4B
C1707	B C 7E	D1401	A C 3E	Q1009	A C 4E	R1036	B C 5F	R1221	B C 4B
C1708	B C 7E	D1402	A C 3E	Q1010	A C 3E	R1037	B C 4F	R1222	A C 4A
C1709	B C 7D	D1403	A C 2C	Q1011	A C 3D	R1038	B C 4E	R1223	A C 4A
C1710	B C 7E	D2101	B C 8C	Q1241	A C 1C	R1039	B C 4E	R1224	A C 4A
C1801	A C 2B	D2201	B C 5F	Q1242	A C 2B	R1040	B C 4E	R1225	A C 4A
C1802	A C 2B			Q1243	A C 2B	R1041	B C 4E	R1226	A C 6B
C1803	A C 2A	**IC**		Q1244	A C 2B	R1042	B C 4E	R1227	B C 4B
C1804	B C 3A	IC1001	B C 1D	Q2201	B C 4E	R1043	B C 4E	R1228	B C 4B
C1805	A C 2B	IC1002	B C 1C			R1044	B C 4F	R1229	B C 4B
C1806	A C 2B	IC1201	A C 5B	**RESISTOR**		R1045	B C 4F	R1230	B C 5B
C1807	B C 3B	IC1202	A C 6A	R1001	B C 1E	R1046	A C 2E	R1231	B C 5B
C1808	B C 3B	IC1203	A C 6B	R1002	B C 1E	R1047	B C 4F	R1241	A C 1C
C1809	B C 3B	IC1241	A C 3B	R1003	B C 1E	R1048	B C 4F	R1242	A C 2C
C1810	B C 3B	IC1401	B C 3D	R1004	B C 1E	R1049	B C 4F	R1243	A C 2C

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R1245	A C 2C	R1429	B C 2D	R1474	A C 4E	R1623	B C 6D	R1813	A C 2B
R1246	A C 2C	R1430	B C 2D	R1475	A C 4E	R1624	B C 6E	R1814	A C 2B
R1247	A C 3A	R1431	B C 2D	R1476	A C 4E	R1625	B C 6D	R1815	A C 2B
R1248	A C 2B	R1432	B C 3B	R1477	A C 4E	R1626	B C 6E	R1816	A C 2B
R1249	A C 3B	R1434	B C 4B	R1478	A C 4E	R1627	A C 6D	R1817	A C 2B
R1250	A C 3B	R1435	B C 5B	R1479	A C 4D	R1628	A C 6D	R1818	B C 2A
R1251	A C 3B	R1436	B C 4B	R1480	A C 4E	R1629	B C 6D	R1819	B C 2A
R1252	A C 3B	R1437	B C 4B	R1481	A C 4D	R1630	B C 6D	R1820	B C 3A
R1253	A C 4B	R1438	B C 4B	R1482	A C 4E	R1631	B C 6E	R1821	B C 1A
R1254	A C 4B	R1439	B C 4B	R1483	A C 4E	R1632	B C 6E	R1822	B C 3B
R1255	A C 3B	R1440	A C 4C	R1485	B C 2E	R1641	A C 5C	R1823	A C 2A
R1256	A C 4B	R1441	A C 2C	R1486	B C 2E	R1642	A C 4C	R1824	A C 2A
R1257	A C 3B	R1443	A C 2C	R1487	B C 2E	R1643	B C 6D	R1825	A C 2A
R1258	A C 3A	R1444	A C 2C	R1488	B C 3E	R1644	A C 6E	R1826	A C 2B
R1259	A C 3A	R1445	A C 3C	R1489	B C 3E	R1653	A C 5D	R1827	A C 2A
R1260	A C 3A	R1446	A C 2C	R1490	B C 3E	R1654	A C 5D	R2101	A C 7B
R1261	A C 3A	R1447	A C 2C	R1491	A C 2D	R1655	A C 5D	R2102	A C 7B
R1401	B C 2E	R1448	A C 2C	R1492	B C 4B	R1656	A C 5D	R2103	A C 7B
R1402	A C 3E	R1449	A C 2C	R1493	A C 3D	R1657	A C 5D	R2104	A C 7C
R1408	A C 2D	R1450	B C 3B	R1494	B C 5E	R1658	A C 5D	R2105	A C 7B
R1409	A C 3E	R1451	B C 2B	R1495	B C 5E	R1659	A C 5D	R2106	A C 7B
R1410	A C 3E	R1452	B C 3B	R1601	A C 5C	R1660	A C 5D	R2107	A C 7B
R1411	A C 3E	R1453	B C 4B	R1602	A C 4C	R1701	B C 8D	R2108	A C 7B
R1412	A C 3E	R1455	B C 4B	R1603	A C 5C	R1702	B C 8D	R2109	A C 7B
R1413	A C 2D	R1458	A C 3C	R1604	A C 4C	R1703	B C 5E	R2110	A C 8B
R1414	A C 4E	R1459	A C 3C	R1605	B C 6E	R1704	B C 5E	R2111	A C 7B
R1415	B C 4E	R1460	B C 3B	R1606	A C 6E	R1705	B C 8E	R2112	A C 7B
R1416	A C 4E	R1461	A C 3C	R1607	A C 6E	R1801	B C 3B	R2113	A C 7B
R1417	A C 4D	R1462	B C 3B	R1608	A C 6E	R1802	B C 3B	R2114	A C 7B
R1419	A C 3E	R1464	A C 3C	R1613	A C 5D	R1803	B C 2B	R2115	A C 7B
R1420	A C 3E	R1465	B C 3B	R1614	A C 5D	R1804	B C 2B	R2116	B C 7C
R1421	B C 2E	R1466	A C 3C	R1615	A C 5D	R1805	B C 2B	R2201	B C 6E
R1422	B C 2E	R1467	A C 3C	R1616	A C 5D	R1806	B C 1B	R2202	B C 6E
R1423	B C 2E	R1468	A C 3C	R1617	B C 6C	R1807	B C 1B	R2203	B C 6E
R1424	B C 3E	R1469	B C 3E	R1618	B C 6D	R1808	B C 1B	R2204	A C 7F
R1425	B C 3E	R1470	B C 4B	R1619	B C 6C	R1809	B C 1B	R2205	A C 6F
R1426	B C 3E	R1471	B C 3B	R1620	B C 6D	R1810	B C 1B	R2206	A C 6F
R1427	A C 2D	R1472	B C 4B	R1621	A C 6C	R1811	B C 1A	R2207	A C 6F

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R2209	A C 6F	K1405	A C 3C	K2212	A C 6F	RA1410	A C 4C	RA2208	A C 7F
R2210	A C 6F	K1406	A C 3C	K2213	A C 6F	RA1411	A C 4C	RA2209	A C 6F
R2211	A C 6F	K1407	A C 2E	K2214	A C 6F	RA1609	B C 5C	RA2210	A C 6F
R2212	A C 6F	K1408	A C 3D	K2215	A C 6F	RA1610	B C 5C	RA2211	A C 6F
R2213	A C 5F	K1701	A C 8D	K2216	A C 6F	RA1611	B C 5C	S1401	B C 3A
R2214	A C 5F	K1702	A C 7D	K2217	A C 6F	RA1612	B C 5D	T1801	A C 1B
R2215	A C 5F	K1801	B C 3A	K2218	A C 5F	RA1613	B C 5D	T1802	A C 1B
R2216	B C 5F	K2101	A C 7C	K2219	A C 5F	RA1614	B C 5D	T1803	A C 1A
R2217	B C 5E	K2102	A C 7C	K2220	A C 5F	RA1615	B C 5D	T1804	A C 1A
		K2103	A C 7C	K2221	A C 5F	RA1616	B C 5E	TM1	A C 1F
OTHER		K2104	A C 7C	LC1001	B C 2F	RA1617	A C 5C	TM2	A C 1F
K1001	B C 2F	K2105	A C 7C	LC1002	B C 3F	RA1618	A C 5C	TM3	A C 8A
K1002	B C 3F	K2106	A C 7C	LC1003	A C 2D	RA1619	A C 6D	TM4	A C 7A
K1003	B C 3F	K2107	A C 7C	LC1004	A C 4E	RA1620	A C 5D	TM5	A C 7F
K1004	B C 3F	K2108	A C 7C	LC1401	A C 7E	RA1621	A C 5D	TM6	A C 7F
K1005	B C 3F	K2109	A C 7C	LC1402	B C 7E	RA1622	A C 5D	TM7	A C 1A
K1006	B C 2F	K2110	A C 7C	LC1403	A C 7F	RA1623	A C 6E	TM8	A C 2A
K1007	B C 3F	K2111	A C 7C	RA1001	B C 1D	RA1624	A C 5E	X1241	A C 3B
K1008	B C 2F	K2112	A C 7C	RA1002	B C 1D	RA1625	A C 4C	X1401	A C 2E
K1009	B C 2F	K2113	A C 7B	RA1003	B C 1D	RA1626	A C 4C	X1801	B C 3B
K1010	B C 2F	K2114	A C 7B	RA1004	B C 1C	RA1627	A C 5C		
K1011	A C 4E	K2115	A C 7B	RA1005	B C 2D	RA1628	A C 5C		
K1012	A C 4E	K2116	A C 7B	RA1006	B C 2C	RA1629	A C 7E		
K1013	A C 4E	K2117	A C 7B	RA1201	A C 7B	RA1630	B C 6E		
K1014	A C 4E	K2118	A C 7B	RA1202	A C 6B	RA1631	B C 6E		
K1015	A C 3E	K2119	A C 7B	RA1203	A C 7A	RA1632	A C 6E		
K1016	A C 4E	K2120	A C 7B	RA1204	A C 6A	RA1801	B C 2B		
K1017	A C 3E	K2121	A C 7B	RA1241	A C 4B	RA1802	B C 2B		
K1018	A C 3E	K2201	A C 7F	RA1242	A C 4A	RA2101	A C 7C		
K1019	A C 1C	K2202	A C 6F	RA1243	A C 4A	RA2102	A C 7C		
K1020	A C 2D	K2203	A C 6F	RA1401	A C 3E	RA2103	A C 7B		
K1201	A C 7B	K2204	A C 6F	RA1402	A C 3E	RA2104	A C 7B		
K1241	A C 1C	K2205	A C 6F	RA1403	B C 3E	RA2201	B C 7E		
K1242	A C 3A	K2206	A C 6F	RA1404	B C 4E	RA2202	B C 7E		
K1243	A C 3B	K2207	A C 6F	RA1405	B C 2B	RA2203	B C 6E		
K1401	A C 3D	K2208	A C 6F	RA1406	B C 2B	RA2204	B C 6E		
K1402	A C 2D	K2209	A C 6F	RA1407	A C 4C	RA2205	B C 6E		
K1403	A C 2E	K2210	A C 6F	RA1408	A C 4C	RA2206	B C 6E		

■ DV MAIN CIRCUIT BOARD

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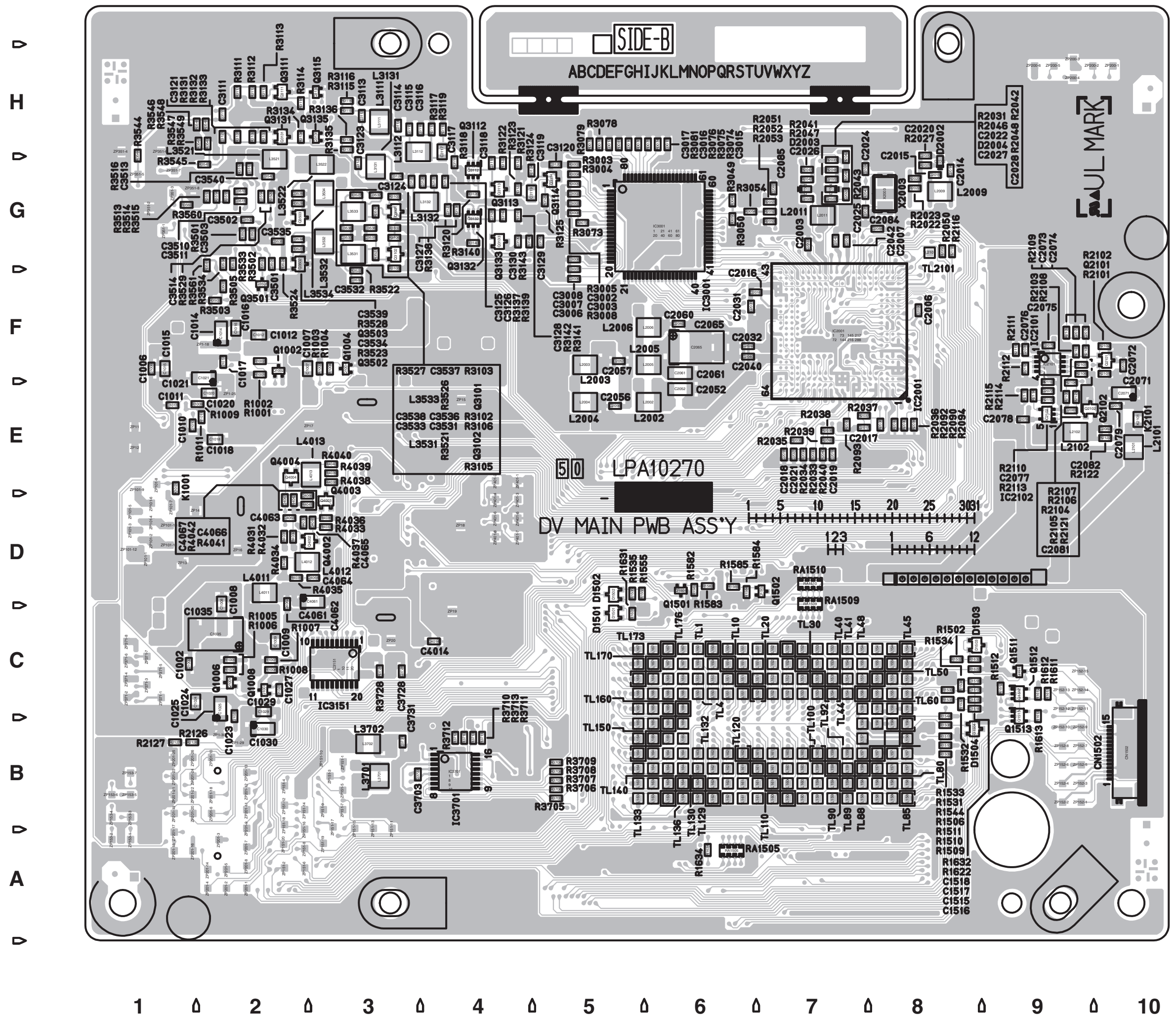

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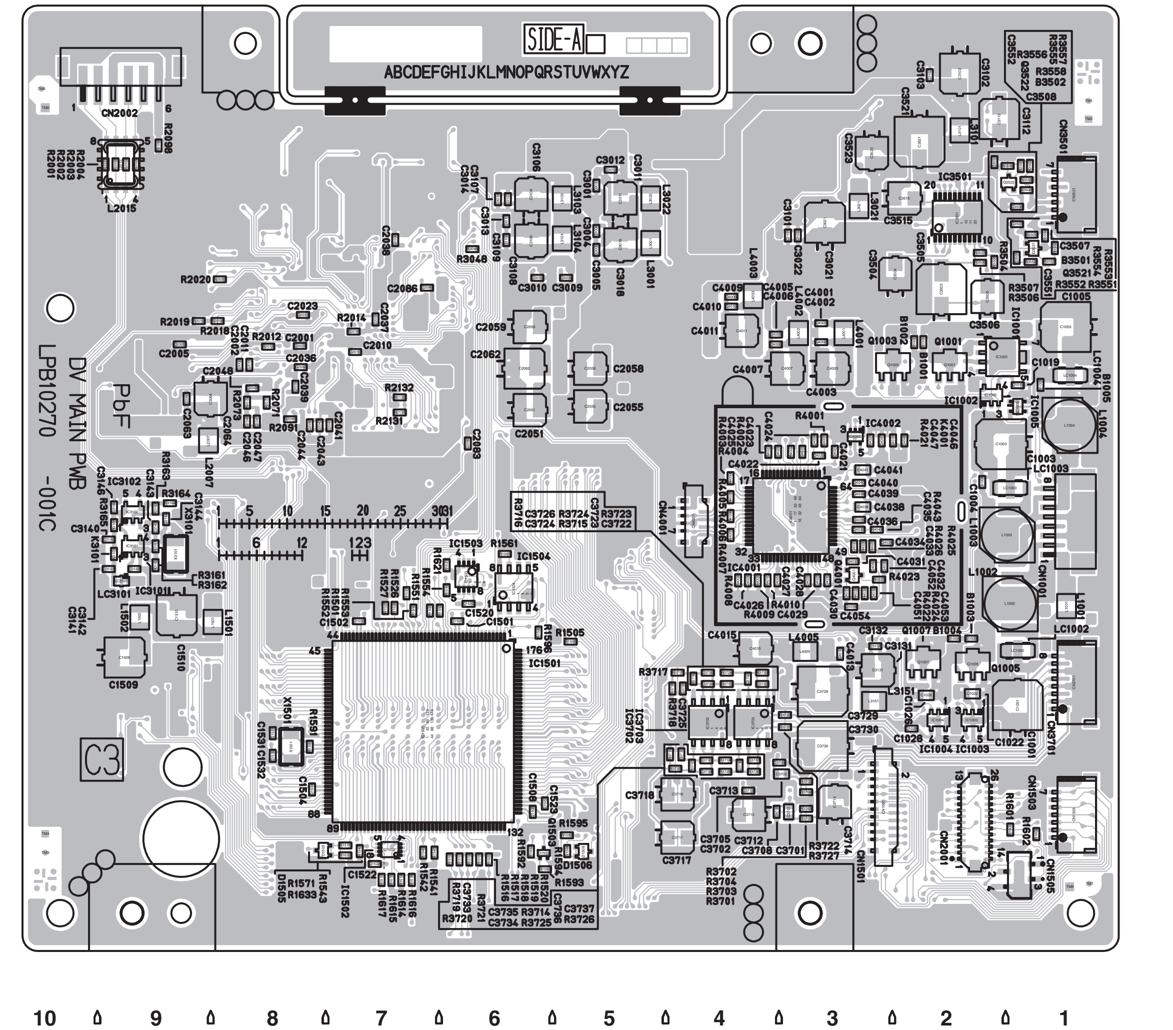
LPB10270-001C **-COMPONENT SIDE-**



COMPONENT PARTS LOCATION GUIDE <DV MAIN> LPB10270-001C

REF.NO.	LOCATION
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C1002	B C 1C
C1003	A C 2E
C1004	A C 2E
C1005	A C 1F
C1006	B C 1F
C1007	B C 2F
C1008	B C 2D
C1009	B C 2C
C1010	B C 1E
C1011	B C 1E
C1012	B C 2F
C1014	B C 2F
C1015	B C 1F
C1016	B C 2F
C1017	B C 2F
C1018	B C 2E
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C1020	B C 2E
C1021	B C 2F
C1022	A C 2C
C1023	B C 2C
C1024	B C 1C
C1025	B C 2C
C1026	A C 2C
C1027	B C 2C
C1028	A C 2B
C1029	B C 2C
C1030	B C 2B
C1035	B C 2C
C1501	A C 6C
C1502	A C 7C
C1504	A C 8B
C1508	A C 6B
C1509	A C 9C
C1510	A C 9C
C1515	B C 8C
C1516	B C 8C
C1517	B C 8C
C1518	B C 8C
C1520	A C 6D
C1522	A C 7A
C1523	A C 6B
C1531	A C 8B
C1532	A C 8B
C2001	A C 8F
C2002	A C 8F
C2003	B C 7G
C2005	A C 9F
C2006	B C 8F
C2007	B C 7G
C2010	A C 7F
C2011	A C 8F
C2014	B C 8G
C2015	B C 8G
C2016	B C 6F
C2017	B C 7E
C2018	B C 7E
C2019	B C 7E
C2020	B C 8H
C2021	B C 7E
C2022	B C 7G
C2023	A C 8F
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C3118	B C 4G
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C3120	B C 5G
C3121	B C 2H
C3123	B C 3G
C3124	B C 3G
C3125	B C 3G
C3126	B C 4G
C3127	B C 4G
C3128	B C 4G
C3129	B C 5G
C3130	B C 4G
C3131	A C 3C
C3132	A C 3C
C3140	A C 9D
C3141	A C 9D
C3142	A C 9D
C3143	A C 9D
C3144	A C 9D
C3146	A C 9D
C3501	B C 2G
C3502	B C 2G
C3503	B C 2G
C3504	A C 2F
C3505	A C 2F
C3506	A C 2F
C3507	A C 1G
C3508	A C 1G
C3510	B C 2G
C3511	B C 2G
C3513	B C 2G
C3514	B C 2G
C3515	A C 2G
C3521	A C 2H
C3523	A C 3H
C3531	B C 3G
C3532	B C 3F
C3533	B C 3G
C3534	B C 2G
C3535	B C 2G
C3536	B C 3G
C3537	B C 3G
C3538	B C 3G
C3539	B C 2G
C3540	B C 2G
C3551	A C 1G
C3552	A C 2G
C3701	A C 3B
C3702	A C 3B
C3703	B C 3B
C3705	A C 3B
C3708	A C 4B
C3712	A C 4B
C3713	A C 4B
C3714	A C 3B
C3717	A C 4B
C3718	A C 4B
C3722	A C 4C
C3723	A C 4C
C3724	A C 4C
C3725	A C 4C
C3726	A C 4C
C3728	B C 3C
C3729	A C 3C
C3730	A C 3B
C3731	B C 3B
C3733	A C 4B
C3734	A C 4B
C3735	A C 4B
C3736	A C 4B
C3737	A C 4B
C4001	A C 3F
C4002	A C 3F
C4003	A C 3F
C4005	A C 4F
C4006	A C 4F
C4007	A C 3F
C4009	A C 4F
C4010	A C 4F
C4011	A C 4F
C4013	A C 3C
C4014	B C 4C
C4015	A C 4C
C4021	A C 3E
C4022	A C 3E
C4023	A C 3E
C4024	A C 3E
C4025	A C 4E
C4026	A C 4D
C4027	A C 4D
C4028	A C 3D
C4029	A C 3D
C4030	A C 3D
C4031	A C 3D
C4032	A C 3D
C4033	A C 3D
C4034	A C 3D
C4035	A C 3D
C4036	A C 3D
C4038	A C 3D
C4039	A C 3E
C4040	A C 3E
C4041	A C 3E
C4046	A C 2E
C4047	A C 3E
C4051	A C 3D
C4052	A C 3D
C4053	A C 3D
C4054	A C 3D
C4061	B C 3D
C4062	B C 2D
C4063	B C 2D
C4064	B C 3D
C4065	B C 3D
C4066	B C 2D
C4067	B C 2D
CONNECTOR	
CN1001	A C 1D
CN1501	A C 3B
CN1502	B C 10B
CN1503	A C 1B
CN1505	A C 1A
CN2001	A C 2A
CN2002	A C 10H
CN3501	A C 1G
CN3701	A C 1C
CN4001	A C 4D
DIODE	
D1501	B C 5C
D1502	B C 5D
D1503	B C 8C
D1504	B C 8B
D1505	A C 8A
D1506	A C 5A
D2002	B C 8G
D2003	B C 7G
D2004	B C 7G
IC	
IC1001	A C 2F
IC1002	A C 2E
IC1003	A C 2C
IC1004	A C 2C
IC1005	A C 1E
IC1501	A C 7B
IC1502	A C 7A
IC1503	A C 6D
IC1504	A C 6D
IC2001	B C 7F
IC2101	B C 9F
IC2102	B C 9E
IC3001	B C 6G
IC3101	A C 9D
IC3102	A C 9D
IC3151	B C 3C
IC3501	A C 2G
IC3701	B C 4B
IC3702	A C 4C
IC3703	A C 4C
IC4001	A C 3D
IC4002	A C 3E
COIL	
L1001	A C 1D
L1002	A C 1D
L1003	A C 1D
L1004	A C 1E
L1501	A C 8C
L1502	A C 9C
L2002	B C 6E
L2003	B C 5F
L2004	B C 5E
L2005	B C 6F
L2006	B C 6F
L2007	A C 9E
L2009	B C 8G
L2011	B C 7G
L2015	A C 9G
L2101	B C 10E
L2102	B C 9E
L3001	A C 5G
L3021	A C 3G
L3022	A C 5G
L3101	A C 2H
L3103	A C 5G
L3104	A C 5G
L3111	B C 3H
L3112	B C 3H
L3131	B C 3G
L3132	B C 4G
L3151	A C 3C
L3521	B C 2G
L3522	B C 3G
L3531	B C 3G
L3532	B C 3G
L3533	B C 3G
L3534	B C 3G
L3701	B C 3B
L3702	B C 3B
L4001	A C 3F
L4002	A C 3F
L4003	A C 4F
L4005	A C 3C
L4011	B C 2D
L4012	B C 2D
L4013	B C 3E
TRANSISTOR	
Q1001	A C 2F
Q1002	B C 2F
Q1003	A C 2F
Q1004	B C 3F
Q1005	A C 2C
Q1006	B C 2C
Q1007	A C 2C
Q1008	B C 2C
Q1501	B C 6D
Q1502	B C 7D
Q1503	A C 6A
Q1511	B C 9C
Q1512	B C 9C
Q1513	B C 9C
Q2101	B C 10F
Q2102	B C 9E
Q3101	B C 3G
Q3102	B C 3G
Q3111	B C 2H
Q3112	B C 4G
Q3113	B C 4G
Q3114	B C 5G
Q3115	B C 3H
Q3131	B C 2H
Q3132	B C 4G
Q3133	B C 4G
Q3135	B C 3H
Q3501	B C 2F
Q3502	B C 2G
Q3503	B C 2G
Q3521	A C 1G
Q3522	A C 1G
Q4001	A C 3D
Q4002	B C 3D
Q4003	B C 3D
Q4004	B C 2E
RESISTOR	
R1001	B C 2F
R1002	B C 2F
R1003	B C 3F
R1004	B C 3F
R1005	B C 2C
R1006	B C 2C
R1007	B C 2C
R1008	B C 2C
R1009	B C 2E
R1011	B C 2E
R1501	A C 7D
R1502	B C 8C
R1505	A C 5C
R1506	B C 8B
R1509	B C 8B
R1510	B C 8B
R1511	B C 8B
R1512	B C 9C
R1516	A C 6A
R1517	A C 6A
R1518	A C 6A
R1519	A C 6A
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R1532	B C 8C
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R1583	B C 6D
R1584	B C 6D
R1585	B C 6D
R1591	A C 8B
R1592	A C 6A
R1593	A C 6A
R1594	A C 5A
R1595	A C 5B
R1596	A C 6C
R1601	A C 1B
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R1617	A C 7A
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R1632	B C 8C
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R2001	A C 9G
R2002	A C 9G
R2003	A C 9G
R2004	A C 9G
R2012	A C 8F
R2014	A C 7F
R2018	A C 8F
R2019	A C 9F
R2020	A C 8F
R2022	B C 8G
R2023	B C 8G
R2027	B C 8G
R2031	B C 7G
R2033	B C 7E
R2034	B C 7E
R2035	B C 7E
R2036	B C 8E
R2037	B C 7E
R2038	B C 7E
R2039	B C 7E
R2040	B C 7E
R2041	B C 7G
R2042	B C 7G
R2043	B C 7G
R2046	B C 7G
R2047	B C 7G
R2048	B C 7G
R2050	B C 8G
R2051	B C 7G
R2052	B C 7G
R2053	B C 7G
R2071	A C 8E
R2073	A C 8E
R2090	B C 8E
R2091	A C 8E
R2092	B C 8E
R2093	B C 7E
R2094	B C 8E
R2098	A C 9H
R2101	B C 10F
R2102	B C 10F
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R2111	B C 9F
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R2113	B C 9E
R2114	B C 9E
R2115	B C 9E
R2116	B C 8G
R2121	B C 9E
R2122	B C 10E
R2126	B C 1B
R2127	B C 1B
R2131	A C 7E
R2132	A C 7E
R3003	B C 5G
R3004	B C 5G
R3005	B C 5G
R3008	B C 5G
R3048	A C 6G
R3049	B C 6G
R3050	B C 6G
R3054	B C 6G
R3073	B C 5G
R3074	B C 6H
R3075	B C 6H
R3076	B C 5H
R3078	B C 5H
R3079	B C 5H
R3081	B C 5H
R3102	B C 3G
R3103	B C 3G
R3105	B C 3F
R3106	B C 3G
R3111	B C 2H
R3112	B C 2H
R3113	B C 2H
R3114	B C 2H
R3115	B C 3H
R3116	B C 3H
R3117	B C 4H
R3118	B C 4G
R3119	B C 4H
R3120	B C 4G
R3121	B C 4G
R3122	B C 4G
R3123	B C 4G
R3124	B C 4G
R3125	B C 5G
R3131	B C 2H
R3132	B C 2H
R3133	B C 2H
R3134	B C 2H
R3135	B C 3H
R3136	B C 3H
R3137	B C 4G
R3138	B C 4G
R3139	B C 4G
R3140	B C 4G
R3141	B C 4G
R3142	B C 4G
R3143	B C 4G
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R3163	A C 9D
R3164	A C 9D
R3165	A C 9D
R3501	B C 2G
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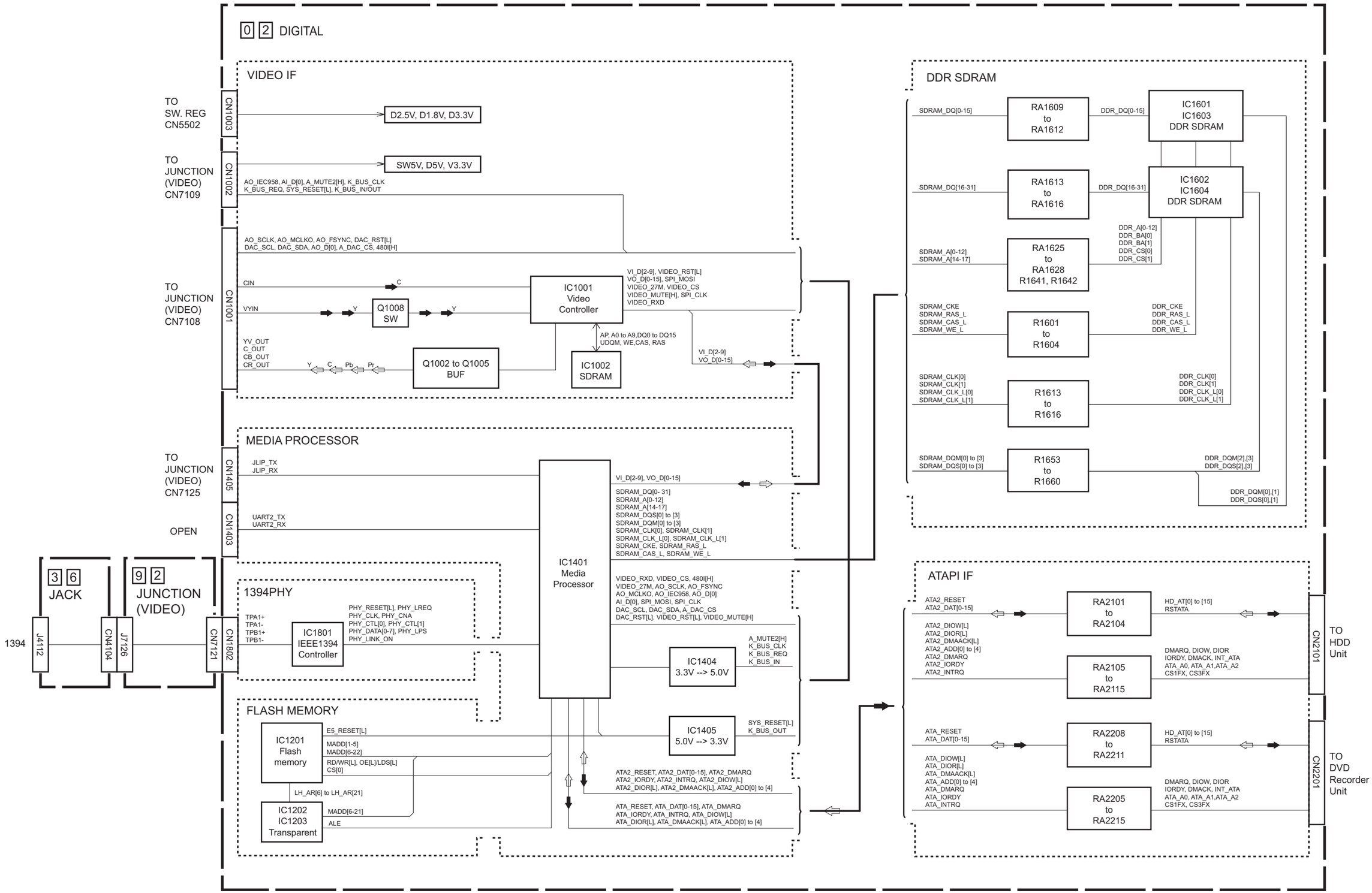
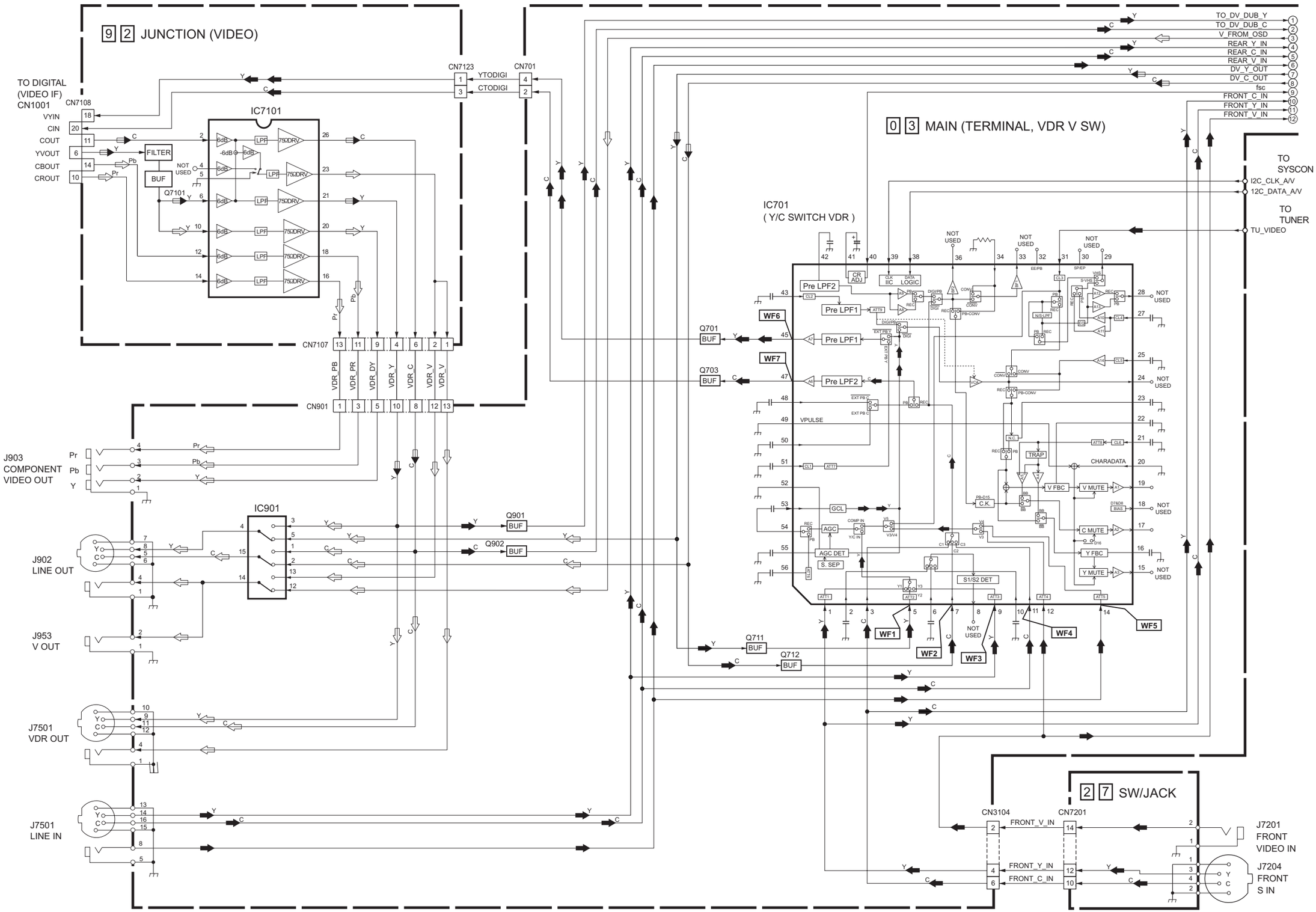
R3503	B C 2F
R3504	A C 2G
R3505	B C 2F
R3506	A C 2G
R3507	A C 2G
R3513	B C 2G
R3514	B C 2G
R3515	B C 2G
R3516	B C 2G
R3521	B C 3G
R3522	B C 3F
R3523	B C 2G
R3524	B C 2G
R3526	B C 3G
R3527	B C 3G
R3528	B C 2G
R3529	B C 2G
R3533	B C 2G
R3534	B C 2G
R3544	B C 1H
R3545	B C 2G
R3546	B C 1H
R3547	B C 2H
R3548	B C 2H
R3549	B C 2H
R3551	A C 1G
R3552	A C 1G
R3553	A C 1G
R3554	A C 1G
R3555	A C 1G
R3556	A C 1G
R3557	A C 1G
R3558	A C 1G
R3560	B C 1G
R3561	B C 2G
R3701	A C 3B
R3702	A C 3B
R3703	A C 3B
R3704	A C 3B
R3705	B C 5B
R3706	B C 5B
R3707	B C 5B
R3708	B C 5B
R3709	B C 5B
R3710	B C 4B
R3711	B C 4B
R3712	B C 4B
R3713	B C 4B
R3714	A C 4B
R3715	A C 4C
R3716	A C 4C
R3717	A C 4C
R3718	A C 4C
R3719	A C 4B
R3720	A C 4B
R3721	A C 4B
R3722	A C 3C
R3723	A C 4C
R3724	A C 4C
R3725	A C 4B
R3726	A C 4B
R3727	A C 3B
R3728	B C 3C
R4001	A C 3E
R4002	A C 3E
R4003	A C 4E
R4004	A C 4E
R4005	A C 4E
R4006	A C 4D
R4007	A C 4D
R4008	A C 4D
R4009	A C 4D
R4010	A C 4D
R4021	A C 3E
R4022	A C 3D
R4023	A C 3D
R4024	A C 3D
R4025	A C 3D
R4026	A C 3D
R4031	B C 2D
R4032	B C 2D
R4033	B C 3D
R4034	B C 2D
R4035	B C 2D
R4036	B C 3D
R4037	B C 2D
R4038	B C 3E
R4039	B C 3E
R4040	B C 3E
R4041	B C 2D
R4042	B C 2D
R4043	A C 3D
OTHER	
K1001	B C 1E
K2101	B C 10E
K3101	A C 9D
K4001	A C 2E
LC1002	A C 1C
LC1003	A C 1E
LC1004	A C 1F
LC3101	A C 9D
RA1505	B C 6A
RA1509	B C 7D
RA1510	B C 7D
TM1	A C 1H
TM2	A C 1H
TM3	A C 10A
TM4	A C 10B
TM5	A C 10H
TM6	A C 10H
TM7	A C 1A
TM8	A C 1A
X1501	A C 8B
X2003	B C 8G
X3101	A C 9D

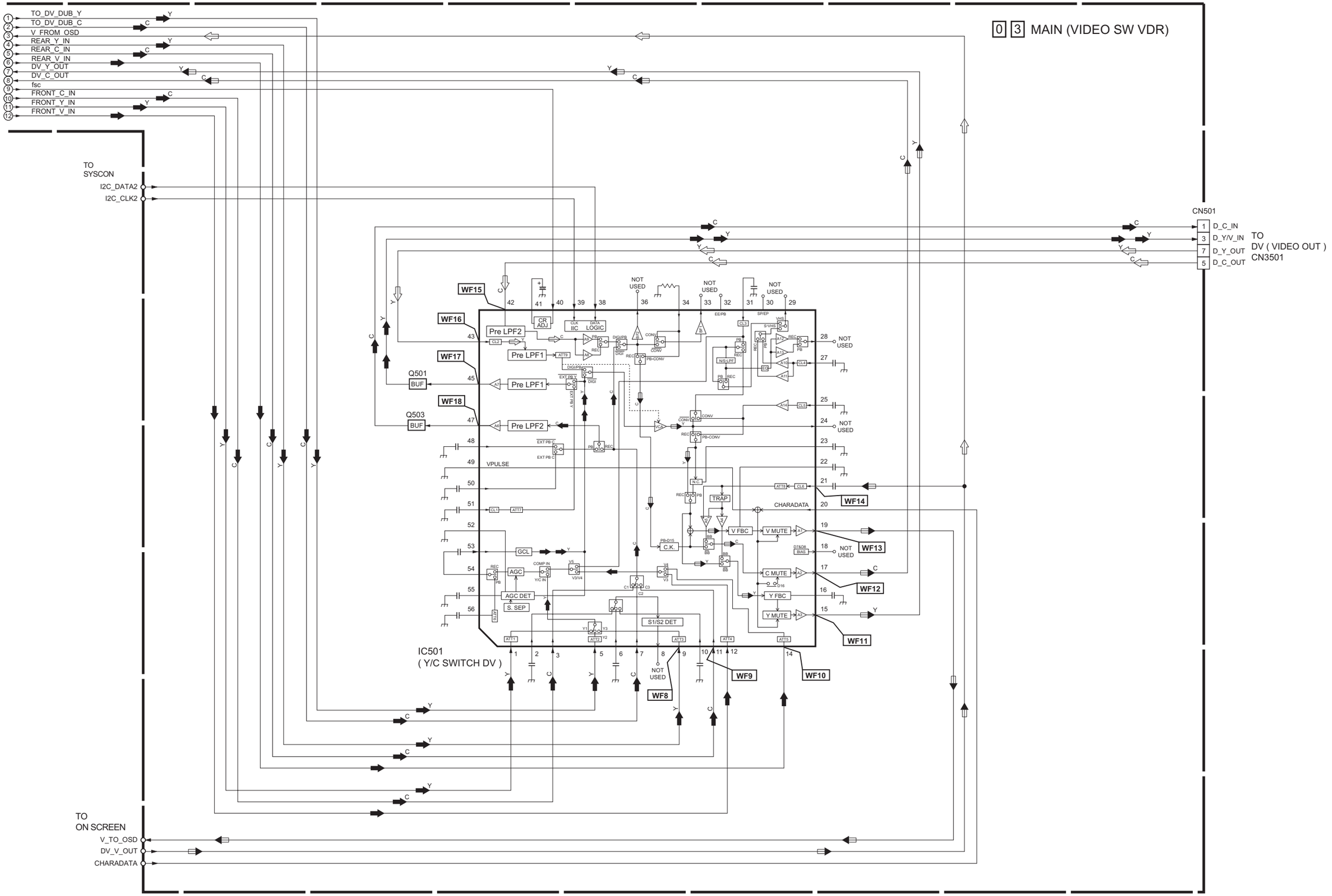
■ DIGITAL BLOCK DIAGRAM



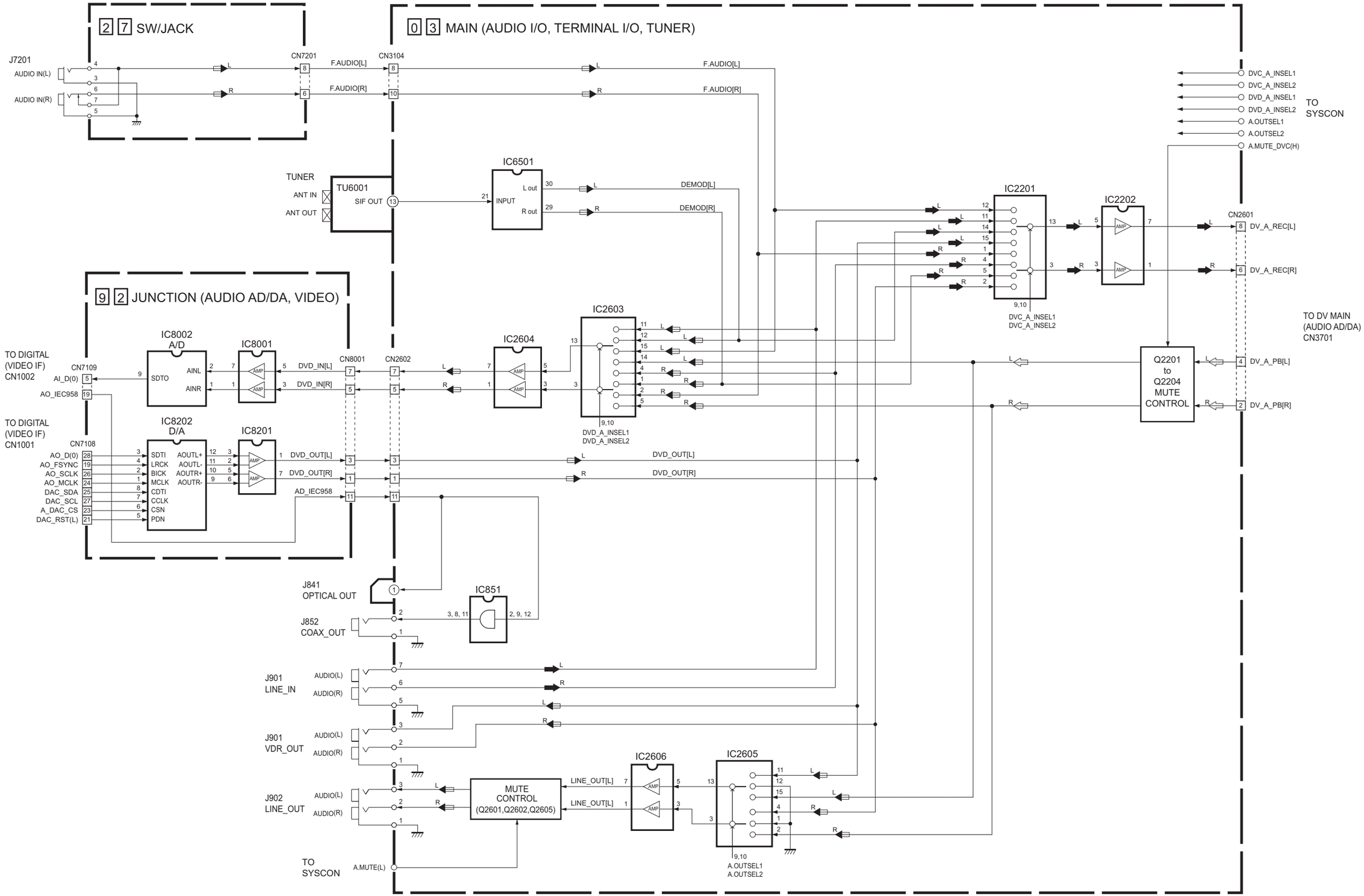
■ VIDEO BLOCK DIAGRAM (1)



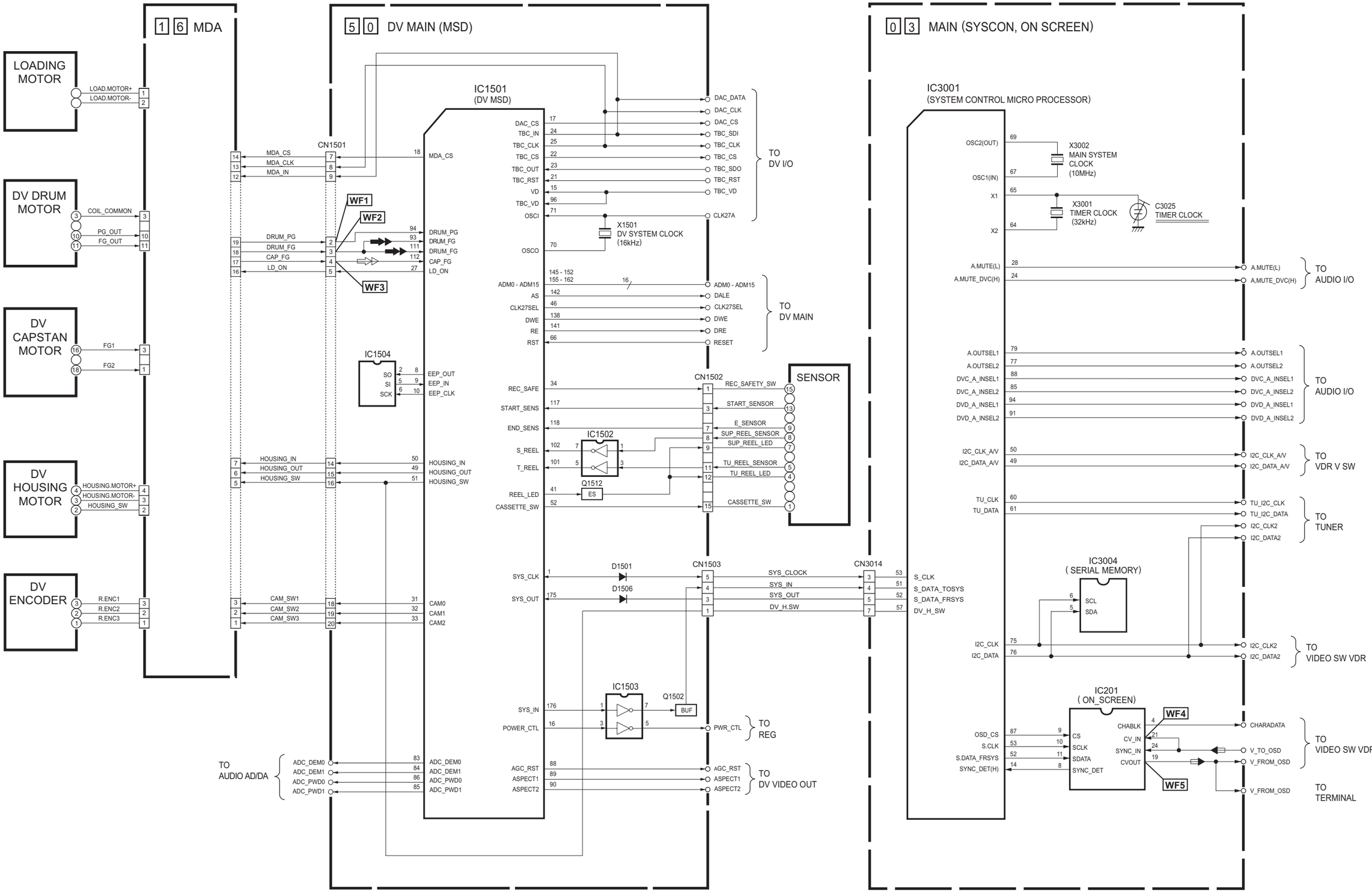
■ VIDEO BLOCK DIAGRAM (2)



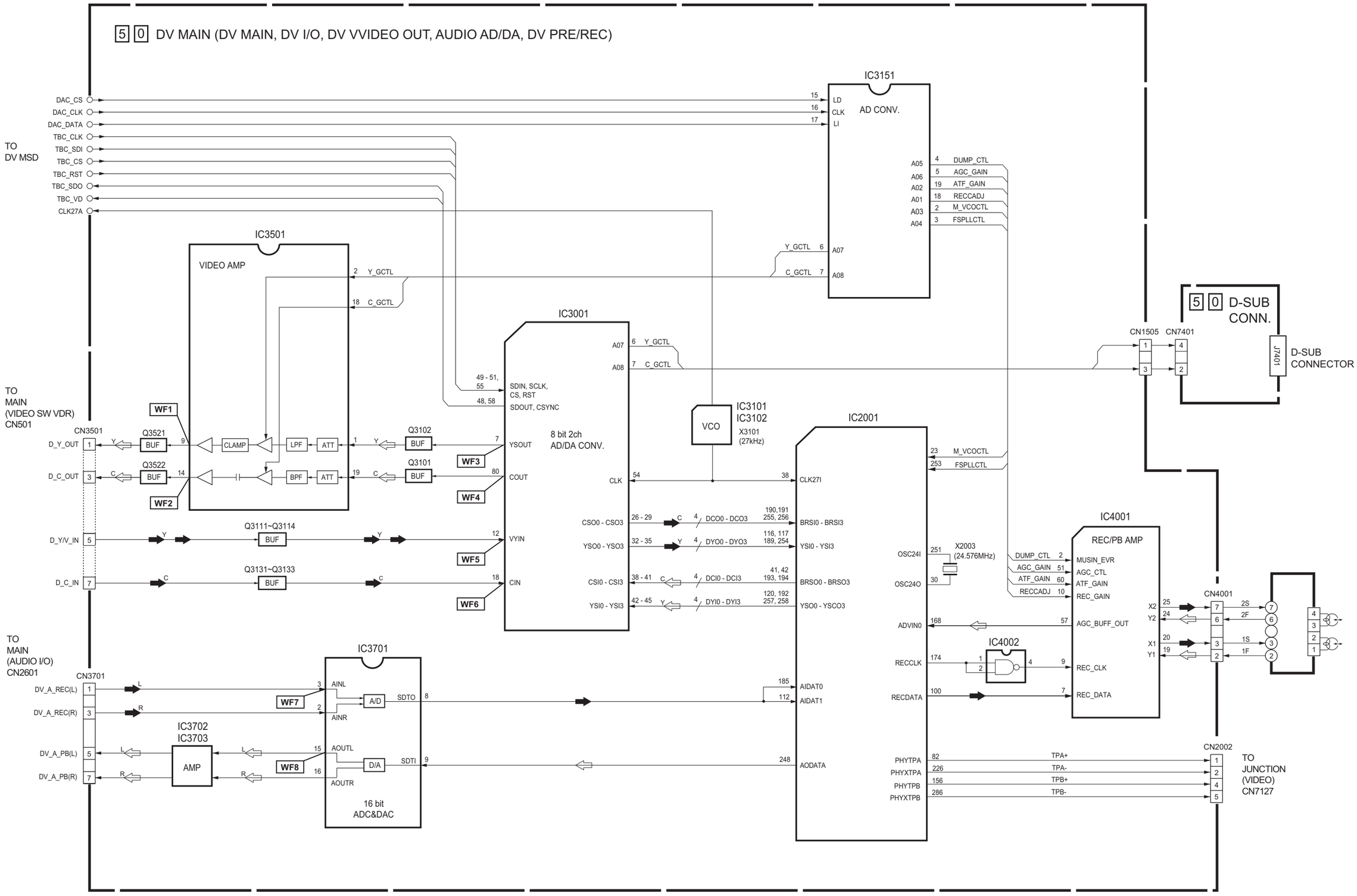
■ AUDIO BLOCK DIAGRAM



■ SYSTEM CONTROL BLOCK DIAGRAM



■ VIDEO (DV) BLOCK DIAGRAM



■ CPU PIN FUNCTION

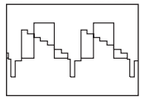
<SYSCON IC3001>

PIN NO.	LABEL	IN/OUT	FUNCTION
1	TO_VSS	-	GND
2	SVss	-	GND
3	OPEN	-	NOT CONNECTED
4	TO_VSS	-	GND
5	OPEN	-	NOT CONNECTED
6	OPEN	-	NOT CONNECTED
7	C+VSS	-	NOT USED
8	TO_VSS	-	GND
9	SVcc	-	SYSTEM POWER
10	Avcc	-	SYSTEM POWER
11	SYNC_DET_VDR[L]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR DVD (DETECTED : H)
12		-	GND
13		-	GND
14	SYNC_DET[H]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR DVC (DETECTED : H)
15		-	GND
16		-	GND
17	TEST	-	NOT USED
18	WIDE_DET_VDR	IN	S1/S2 DETECT FOR VDR
19	KEY1IN	IN	OPERATION CONTROL SIGNAL
20	AFC	IN	TUNING CHECK
21	WIDE_DET_DV	IN	S1/S2 DETECT FOR DVC
22	KEY2IN	IN	OPERATION CONTROL SIGNAL
23	Avss	-	GND
24	A.MUTE_DVC[H]	OUT	AUDIO MUTE CONTROL FOR DVC(MUTE:H)
25	C_BIAS2	OUT	ADD THE DC BIAS TO COLOR SIGNAL
26	BLUE_LED	-	NOT USED
27	C_BIAS1	OUT	ADD THE DC BIAS TO COLOR SIGNAL
28	A.MUTE[L]	OUT	AUDIO MUTE CONTROL(MUTE ON : L)
29	RC_IN	IN	REMOTE CONTROL DATA INPUT
30	LED9	OUT	DVD REC LED ON/OFF CONTROL (LED ON : H)
31	LED10	OUT	DVD LED ON/OFF CONTROL (LED ON : H)
32	BS_DIGI_LINK/COMPU_IN	-	NOT USED
33	COMP_OUT	OUT	AV COMPULINK OUTPUT
34	EDS_CS	OUT	EDS CHIP SELECT
35	P.CTL[H]	OUT	CONTROL SIGNAL FOR SWITCHING POWER SUPPLY
36	FAN_CTL[H]	OUT	FAN MOTOR ON/OFF CONTROL
37	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR DVD (MUTE : H)
38	MSD_CS	OUT	CHIP SELECT OF DVC CPU
39	STB	OUT	STROBE SIGNAL
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41		-	NOT CONNECTED
42	PROTECT	IN	DETECTION SIGNAL FOR SWITCHING POWERSUPPLY
43	Vss	-	GND
44	RMO	OUT	REMOTE CONTROL OUTPUT FOR SATELLITE RECEIVER
45	Vcc	-	SYSTEM POWER
46	K.BUS_IN	IN	SERIAL DATA TRANSFERMER INPUT FROM DVD CPU
47	K.BUS_OUT	OUT	SERIAL DATA TRANSFERMER OUTPUT TO DVD CPU
48	K.BUS_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU
49	12C_DATA_AV	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR A/V IC
50	12C_CLK_AV	OUT	SERIAL DATA TRANSFER CLOCK FOR A/V IC
51	S_DATA_TOSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO
52	S_DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO
53	S_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR ONSCREEN IC
54	K_BUS_REQ	OUT	SERIAL DATA TRANSFER REQUEST TO DVD CPU
55	MSD_READY	IN	PREPARATION OF COMMUNICATION OF DVC CPU
56		-	CONNECTED Vcc
57	DV_H_SW	IN	DETECTION OF DVC CASSETTE
58		-	CONNECTED Vcc
59	JUST/EDS[H]	IN	VIDEO SIGNAL FIELD DETECT
60	TU_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK TO TUNER
61	TU_DATA	OUT	SERIAL DATA TRANSFERMER DATA TO TUNER
62	FWE	-	FLASH WRITE ENABLE
63	NMI	-	NOT USED
64	X2	-	TIMER CLOCK(32kHz)
65	X1	-	TIMER CLOCK(32kHz)
66	RES	OUT	RESET TERMINAL(RESET ON:L)
67	OSC1	IN	MAIN SYSTEM CLOCK(10MHz)
68	Vss	-	GND
69	OSC2	OUT	MAIN SYSTEM CLOCK(10MHz)
70	Vcl	-	SYSTEM POWER
71	MODE	-	NOT USED
72	I.MUTE	OUT	INTERFACE VIDEO SIGNAL MUTING CONTROL OUTPUT
73	TU_V.MUTE[H]	OUT	TUNER VIDEO SIGNAL MUTE : H
74	A.MUTE_VDR[H]	OUT	AUDIO MUTE CONTROL FOR DVD(MUTE:H)
75	12C_CLK2	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	12C_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	A.OUTSEL2	OUT	AUDIO OUTPUT SIGNAL SELECT-2
78	VDR[H]	OUT	VDR MODE : H
79	A.OUTSEL1	OUT	AUDIO OUTPUT SIGNAL SELECT-1
80	MSD_RESET[L]	OUT	RESET OUTPUT TO DVD CPU
81	E5_RESET[L]	OUT	RESET OUTPUT TO DVD CPU
82	Vcc	-	SYSTEM POWER
83		-	NOT CONNECTED
84	Vss	-	GND
85	DVC_A_INSEL2	OUT	DVC AUDIO INPUT SIGNAL SELECT-2
86		-	NOT CONNECTED
87	OSD_CS	OUT	CHIP SELECT FOR THE ONSCREEN IC
88	DVC_A_INSEL1	OUT	DVC AUDIO INPUT SIGNAL SELECT-1
89		-	NOT CONNECTED
90	LINE2INFO	-	NOT USED
91	DVD_A_INSEL2	OUT	DVD AUDIO INPUT SIGNAL SELECT-2
92	P.MUTE_DV[L]	OUT	PICTURE MUTE CONTROL FOR DV (MUTE ON : H)
93	AD_RST[L]	OUT	A/D CONVERTER RESET PULSE OUTPUT
94	DVD_A_INSEL1	OUT	DVD AUDIO INPUT SIGNAL SELECT-1
95	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR VDR (MUTE ON : L)
96	P.SAVE[L]	OUT	POWER SAVE MODE:H
97	HDD_P.SAVE	OUT	POWER SAVE FOR HDD
98		-	GND
99	OPEN	-	NOT CONNECTED
100	OPEN	-	NOT CONNECTED
101	OPEN	-	NOT CONNECTED
102	OPEN	-	NOT CONNECTED
103		-	NOT CONNECTED
104		-	NOT CONNECTED
105	TO_VSS	-	GND
106	TO_VSS	-	GND
107	TO_VSS	-	GND
108	TO_VSS	-	GND
109	Vcc	-	SYSTEM POWER
110		-	NOT CONNECTED
111	Vss	-	GND
112		-	NOT CONNECTED

■ WAVEFORMS

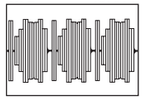
VIDEO BLOCK DIAGRAM(1)

WF1 IC701-5



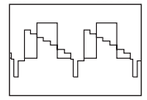
REC 1.0Vp-p
0.5V/20µsec/DIV

WF2 IC701-7



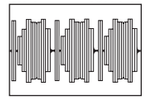
REC 0.8Vp-p
0.2V/20µsec/DIV

WF3 IC701-9



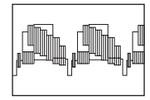
REC 0.9Vp-p
0.5V/20µsec/DIV

WF4 IC701-11



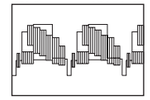
REC 0.7Vp-p
0.2V/20µsec/DIV

WF5 IC701-14



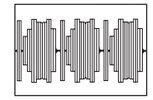
REC 1.1Vp-p
0.5V/20µsec/DIV

WF6 IC701-45



REC/PB 1.8Vp-p
1.0V/20µsec/DIV

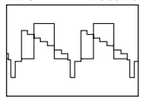
WF7 IC701-47



REC/PB 2.8Vp-p
1.0V/20µsec/DIV

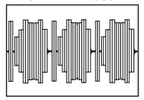
VIDEO BLOCK DIAGRAM(2)

WF8 IC501-9



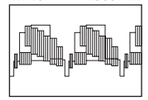
REC 0.9Vp-p
0.5V/20µsec/DIV

WF9 IC501-11



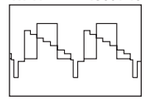
REC 0.7Vp-p
0.2V/20µsec/DIV

WF10 IC501-14



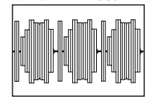
REC 1.1Vp-p
0.5V/20µsec/DIV

WF11 IC501-15



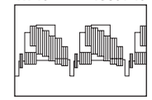
REC/PB 1.8Vp-p
1.0V/20µsec/DIV

WF12 IC501-17



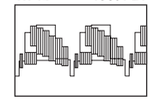
REC/PB 1.7Vp-p
0.5V/20µsec/DIV

WF13 IC501-19



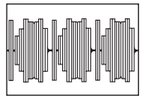
REC/PB 2.0Vp-p
1.0V/20µsec/DIV

WF14 IC501-21



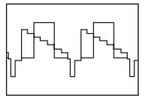
REC/PB 2.0Vp-p
1.0V/20µsec/DIV

WF15 IC501-42



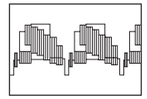
PB 0.6Vp-p
0.2V/20µsec/DIV

WF16 IC501-43



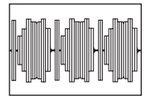
PB 0.7Vp-p
0.5V/20µsec/DIV

WF17 IC501-45



REC 1.8Vp-p
0.5V/20µsec/DIV

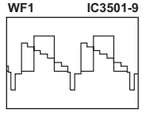
WF18 IC501-47



REC 3.0Vp-p
1.0V/20µsec/DIV

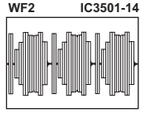
VIDEO (DV) BLOCK DIAGRAM

WF1 IC3501-9



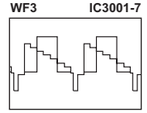
PB 1.5Vp-p
0.5V/20µsec/DIV

WF2 IC3501-14



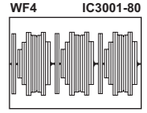
PB 1.2Vp-p
0.5V/20µsec/DIV

WF3 IC3001-7



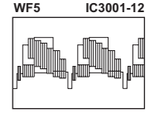
PB 0.8Vp-p
0.5V/20µsec/DIV

WF4 IC3001-80



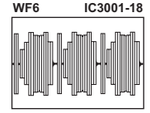
PB 0.7Vp-p
0.5V/20µsec/DIV

WF5 IC3001-12



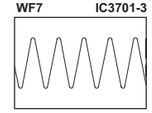
REC 1.3Vp-p
0.5V/20µsec/DIV

WF6 IC3001-18



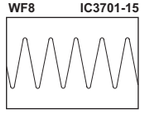
REC 1.7Vp-p
1.0V/20µsec/DIV

WF7 IC3701-3



REC 0.1Vp-p
50mV/1.0msec/DIV

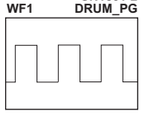
WF8 IC3701-15



PB 0.1Vp-p
50mV/1.0msec/DIV

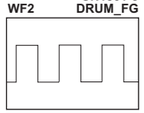
SYSTEM CONTROL BLOCK DIAGRAM

WF1 CN1501-2 DRUM_PG



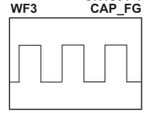
REC/PB 3.4Vp-p
1.0V/2.0msec/DIV

WF2 CN1501-3 DRUM_FG



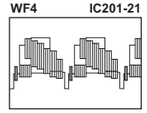
REC/PB 3.4Vp-p
1.0V/0.5msec/DIV

WF3 CN1501-4 CAP_FG



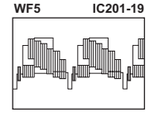
REC/PB 3.4Vp-p
1.0V/0.5msec/DIV

WF4 IC201-21



REC/PB 2.0Vp-p
1.0V/20µsec/DIV

WF5 IC201-19



REC/PB 2.0Vp-p
1.0V/20µsec/DIV

■ VOLTAGE CHARTS

<SW.REG>

MODE PIN NO.	REC	PLAY
IC5101		
1	295.0	294.5
2	0	0
3	0.2	0.2
4	17.3	17.3
5	2.5	2.6
IC5301		
1	2.4	2.4
2	0	0
3	4.8	4.8
Q5303		
E	20.9	20.9
C	20.9	20.9
B	0	0
Q5304		
E	0	0
C	0	0
B	4.2	4.2
Q5305		
E	10.8	10.8
C	12.0	12.0
B	11.6	11.6
Q5306		
E	5.1	5.0
C	5.8	5.8
B	5.8	5.8
Q5307		
E	11.0	11.0
C	11.0	11.0
B	10.3	10.3
Q5308		
E	0	0
C	0	0
B	4.6	4.4
Q5313		
E	12.2	12.3
C	12.3	12.3
B	11.5	11.6
Q5314		
E	5.1	5.2
C	5.1	5.1
B	4.4	4.5
Q5315		
E	0	0
C	0.2	0.3
B	4.6	4.6
CN5301		
1	5.1	5.1
2	10.8	10.8
3	32.7	32.7
4	53.9	53.9
5	4.6	4.6
6	-7.4	-7.5
7	0	0
8	0	0
9	4.9	4.9
10	5.8	5.8
11	4.2	4.2
12	0	0
13	0	0
14	5.8	5.8
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
CN5302		
1	11.0	11.0
2	0	0
CN5303		
1	12.3	12.3
2	0	0
3	0	0
4	4.9	5.1
CN5304		
1	4.6	4.6
2	5.1	5.1
3	5.9	6.0
4	12.3	11.8
5	5.9	5.2
6	5.8	5.9
7	0	0
8	0	0
9	4.2	4.2
10	4.9	4.9
11	0	0
12	5.8	5.8
13	0	0
14	0	0
15	10.8	10.8
16	-7.4	-7.4
17	-30.0	-30.0
18	-21.0	-21.0
19	-16.5	-16.5

<MAIN>

MODE PIN NO.	REC	PLAY
IC201		
1	0	0
2	2.6	2.6
3	5.0	5.0
4	0	0
5	0.3	0.2
6	2.4	2.4
7	2.4	2.4
8	3.0	3.0
9	3.0	3.1
10	4.0	4.1
11	2.0	2.2
12	5.0	5.0
13	2.3	2.4
14	0	0
15	2.3	2.3
16	0	0.1
17	5.0	5.0
18	4.8	4.8
19	0	0
20	5.0	5.0
21	5.0	5.1
22	0.0	0.0
23	0.0	0.0
24	5.0	5.0
IC501		
1	2.7	2.8
2	0.1	0.1
3	2.1	2.1
4	5.0	5.0
5	2.7	2.8
6	0.1	0.0
7	2.1	2.0
8	0	0
9	2.7	2.8
10	0.1	0.2
11	2.1	2.1
12	2.7	2.8
13	0	0
14	2.8	2.8
15	2.2	2.2
16	2.7	2.7
17	2.4	2.1
18	0	0
19	2.3	2.3
20	0	0
21	3.5	3.5
22	2.7	0.1
23	3.0	3.0
24	3.1	3.1
25	2.8	0
26	5.0	5.0
27	2.8	2.8
28	2.3	2.4
29	2.4	2.4
30	0	0.1
31	2.7	2.7
32	0	0
33	2.8	2.8
34	0.2	0.3
35	2.8	2.8
36	0	3.3
37	0	0
38	0	3.4
39	3.9	3.9
40	2.8	2.8
41	2.6	2.6
42	2.8	2.8
43	3.2	3.3
44	1.6	1.6
45	2.1	1.3
46	5.0	5.0
47	0.6	0.6
48	2.8	2.8
49	0	0
50	1.0	2.8
51	2.8	2.9
52	0	0
53	3.2	2.9
54	2.2	2.0
55	1.9	1.1
56	2.5	2.6
IC701		
1	2.8	2.8
2	0.1	0.2
3	2.1	2.0
4	5.0	5.0
5	2.8	2.8
6	0	0.2
7	2.1	2.1
8	0	0
9	2.7	2.8
10	0.2	0.2
11	2.1	2.1
12	2.6	2.8
13	0	0
14	2.8	2.8

MODE PIN NO.	REC	PLAY
15	1.4	1.4
16	2.7	2.7
17	2.4	2.4
18	0	0
19	1.5	0
20	0	0
21	2.6	2.6
22	2.7	2.7
23	3.0	3.0
24	2.7	2.8
25	2.8	2.8
26	5.0	5.0
27	2.8	2.8
28	2.2	2.2
29	0	2.2
30	0	0.1
31	3.2	3.1
32	0	0
33	2.8	2.8
34	0.3	0.3
35	2.8	2.8
36	3.0	3.1
37	0	0
38	4.9	5.0
39	4.9	5.0
40	2.8	2.8
41	2.7	2.6
42	2.8	2.8
43	3.0	3.0
44	1.6	1.2
45	2.6	2.6
46	5.0	5.0
47	0.7	0.8
48	2.8	2.8
49	0	0
50	2.8	2.8
51	2.9	2.9
52	0	0
53	3.3	3.3
54	2.8	2.9
55	2.0	2.0
56	2.5	2.5
IC851		
1	3.2	3.2
2	1.6	1.6
3	1.6	1.6
4	0	0
5	0	0.1
6	0	0
7	0	0
8	1.6	1.6
9	1.6	0
10	3.2	3.2
11	1.6	1.6
12	1.6	1.6
13	3.2	3.2
14	3.2	3.2
IC901		
1	2.4	2.5
2	2.4	2.4
3	1.8	1.8
4	2.2	2.2
5	2.2	2.2
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	6.6	6.6
IC2604		
1	0	0
2	0	0
3	0	0
4	-9.8	-10.0
5	0	0
6	0	0
7	0	0
8	11.2	11.3
IC2605		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-9.8	-10.0
8	0	0
9	5.0	5.0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	6.6	6.7
IC2606		
1	0	0
2	0	0
3	0	0
4	-9.8	-10.0
5	0	0
6	0	0
7	0	0
8	11.1	11.3
IC3001		
1	0	0
2	0	0
3	1.6	1.6
4	0	0
5	0	0
6	2.4	1.5
7	4.1	4.1
8	0	0
9	5.0	5.0
10	5.0	5.0
11	5.1	5.1
12	0	0
13	0	0
14	2.6	2.7
15	0	0
16	0.0	0.0
17	0.0	0.0
18	0.0	0.0
19	5.0	5.0
20	4.6	4.6
21	0	0
22	5.0	5.0
23	0	0
24	0	0
25	0	0
26	5.0	5.0
27	0	0
28	5.0	5.0
29	4.9	5.0
30	0	0
31	0	0
32	0.6	0.6
33	0	0
34	0	0
35	4.9	4.9
36	4.9	4.9
37	0	0
38	0.4	0.4
39	3.0	2.9
40	0	0
41	0	0

MODE PIN NO.	REC	PLAY
42	4.5	4.5
43	0	0
44	0	0
45	5.0	5.1
46	0.1	0.1
47	0	0.3
48	4.2	4.2
49	4.9	5.0
50	4.9	4.9
51	4.6	4.6
52	1.8	1.9
53	4.1	4.1
54	2.0	2.2
55	4.7	4.7
56	0	0
57	0	0
58	0	0
59	0.3	0.3
60	4.2	4.4
61	4.2	4.3
62	0	0
63	0	0
64	1.3	1.4
65	0.6	0.6
66	5.0	5.0
67	2.5	2.5
68	0	0
69	2.5	2.5
70	5.0	5.0
71	5.0	5.1
72	5.0	5.0
73	5.0	5.0
74	5.0	5.0
75	4.4	4.1
76	3.9	4.0
77	5.0	5.0
78	0	0
79	0	0
80	5.0	5.0
81	5.0	5.1
82	5.0	5.0
83	0.0	0.0
84	0.0	0.0
85	5.0	0.0
86	0.0	0.0
87	2.8	2.7
88	5.0	5.0
89	0.0	0.0
90	0.0	0.0
91	0.0	0.0
92	5.0	5.0
93	5.0	5.0
94	0.0	0.0
95	5.0	5.0
96	4.9	4.9
97	4.9	5.0
98	0.0	0.0
99	0.0	0.0
100	0.0	0.1
101	0.0	0.0
102	0.0	0.0
103	0.0	0.1
104	0.0	0.0
105	0.0	0.0
106	0.0	0.0
107	0.0	0.0
108	0.0	0.0
109	5.0	5.0
110	0.0	0.1
111	0.0	0.0
112	1.6	1.6
IC3002		
1	5.0	5.1
2	5.0	5.0
3	0.0	0.0
4	0.0	0.0
IC3004		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	4.1	4.0
6	4.1	4.2
7	0.0	0.0
8	5.0	5.0
IC5401		
1	3.3	3.3
2	0.0	0.0
3	0.0	0.0
4	1.9	1.9
5	4.1	4.1
6	0.0	0.0
7	0.0	0.0
8	4.1	4.1
IC6501		
1	0.0	0.0
2	0.7	0.7

MODE PIN NO.	REC	PLAY
3	2.7	2.7
4	0.5	0.8
5	2.4	2.4
6	2.3	2.3
7	4.5	4.5
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	2.8	2.8
14	2.7	2.7
15	2.2	2.3
16	0.0	0.0
17	3.0	2.7
18	3.4	3.4
19	0.0	5.0
20	0.0	0.0
21	2.1	2.2
22	3.5	0.0
23	0.0	0.0
24	0.0	3.9
25	0.0	0.0
26	1.7	1.7
27	0.0	0.0
28	0.0	0.0
29	2.1	2.1
30	2.1	2.2
31	0.0	0.0
32	2.2	2.2
Q212		
E	3.1	3.1
C	5.0	5.0
B	3.7	3.6
Q503		
E	1.8	1.9
C	5.0	5.0
B	2.5	2.5
Q505		
E	2.5	1.8
C	0	0.1
B	1.8	1.2
Q701		
E	2.9	2.8
C	0	0
B	2.2	2.3
Q703		
E	1.8	1.9
C	5.0	5.0
B	2.5	2.5
Q706		
E	3.2	3.2
C	5.0	5.1
B	3.6	3.6
Q711		
E	2.9	2.9
C	0	0
B	2.2	2.2
Q712		
E	3.0	3.0
C	0	0
B	2.4	2.4
Q713		
E	1.5	1.5
C	0	0
B	0.9	0.9
Q901		
E	2.5	2.5
C	0	0
B	1.8	1.8
Q902		
E	3.1	3.1
C	0.0	0.0
B	2.5	2.4
Q911		
E	2.9	2.9
C	0	0
B	2.3	2.2
Q912		
E	3.1	3.1
C	0	0
B	2.4	2.4
Q913		
E	2.9	3.0
C	0	0
B	2.4	2.3
Q915		
E	3.0	3.0
C	0.0	0.0
B	2.3	2.3
Q2201		
E	0	0
C	0	0
B	-0.1	-0.1
Q2202		
E	0	0
C	0	0

MODE PIN NO.	REC	PLAY
B	-0.1	-0.1
Q2203		
E	5.8	5.8
C	-0.1	-0.1
B	5.8	5.8
Q2204		
E	0	0
C	5.7	5.7
B	0	0
Q2601		
E	0	0
C	0	0
B	-0.1	-0.1
Q2602		
E	0	0
C	0	0
B	-0.1	-0.1
Q2603		
E	0	0
C	5.0	5.0
B	-0.1	-0.1
Q2604		
E	0	0
C	0	0
B	-0.1	-0.1
Q2605		
E	5.2	5.3
C	-0.1	-0.1
B	5.0	5.0
Q3004		
E	0	0
C	0	0
B	0.7	0.7
Q3008		
E	0	0
C	3.7	3.8
B	0	0
Q3901		
E	0	0
C	5.0	5.1
B	3.7	3.6
Q5401		
E	5.7	5.7
C	0	0
B	5.7	5.7
Q5402		
E	0	0
C	5.7	5.7
B	0	0
Q6030		
E	2.9	2.7
C	0	0
B	2.2	2.2
CN501		
1	1.9	1.9
2	0	0
3	2.4	1.8
4	0	0
5	1.6	1.6
6	0	0
7	3.9	3.9
CN701		
1	0	0
2	1.8	1.9
3	0	0
4	3.0	2.8
CN901		
1	2.5	2.4
2	0	0
3	2.5	2.5
4	0	0
5	1.8	1.8
6	0	0
7	0	0
8	2.5	2.5
9	0	0
10	1.8	1.8
11	0	0
12	1.8	1.8
13	1.8	1.8
CN2601		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
CN2602		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0

MODE PIN NO.	REC	PLAY
8	0	0
9	0	0
10	3.2	3.2
11	1.6	1.6
CN3014		
1	5.0	5.0
2	0.4	0.3
3	4.1	0
4	4.6	4.6
5	1.9	1.9
6	4.7	4.8
7	0	0
CN3102		
1	0	0
2	3.7	3.8
3	0	0
4	0	0
5	0	0
6	5.0	5.0
7	4.8	5.0
8	4.1	4.1
9	4.6	4.7
10	1.7	1.8
11	2.9	2.9
12	-20.0	-20.1
13	-29.0	-29.0
14	-15.8	-15.9
15	0	0
CN3103		
1	4.8	4.8
2	5.0	5.0
3	5.0	5.1
4	4.1	4.2
5	2.6	2.4
6	0.4	0.3
7	0.1	0.1
8	0	0
9	4.1	4.2
10	5.1	4.1
11	0	0
12	5.0	5.0
13	5.0	5.0
14	4.5	4.6
15	-15.9	-15.9
16	-20.1	-20.1
17	-29.0	-29.0
18	5.0	5.0
19	0	0
CN3104		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	5.0	5.1
13	5.0	5.0
14	0	0
15	5.0	5.0
CN3901		
1	0	0
2	5.1	5.1
3	0	0
4	5.0	5.0
5	0.3	0.4
6	0	0.1
CN5402		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	5.8	5.8
7	0	0
8	0	0
9	4.2	4.2
10	5.8	5.8
11	4.9	4.9
12	0	0
13	0	0
14	-9.8	-9.8
15	4.5	4.6
16	54.5	54.6
17	33.1	33.0
18	11.3	11.2
19	5.0	5.0
CN5403		
1	4.8	4.9
2	0	0
3	0	5.7
4	0	4.9
5	0	0

MODE PIN NO.	REC	PLAY
CN5404		
1	0	0
2	0	0
3	3.3	3.3
4	0	0
5	3.3	3.3
6	0	0
7	5.0	5.0
8	-9.8	-10.0
TU6001		
1	0	0
2	0	0
3	4.9	5.0
4	0	0
5	0	0
6	3.8	3.8
7	0	0
8	0	0
9	4.4	4.3
10	4.3	4.4
11	4.6	4.7
12	2.3	2.3
13	2.3	2.4
14	33.0	33.1
15	0.1	0
16	2.2	2.2

<OPERATION/JACK>

MODE PIN NO.	REC	PLAY
CN7201		
1	5.0	5.0
2	0	0
3	5.0	5.0
4	5.0	5.0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0.4	0.1
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0

<SWITCH/DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	4.9	4.9
2	0	5.0
3	5.0	4.9
4	0	0
5	2.8	2.8
6	4.6	4.5
7	3.4	3.1
8	4.0	4.0
9	3.0	3.0
10	0	0
11	0	0
12	0	0
13	4.9	5.0
14	-24.5	-26.9
15	-26.6	-26.8
16	-22.1	-26.9
17	-29.2	-29.3
18	-29.2	-29.3
19	-26.8	-27.0
20	-14.8	-29.3
21	-24.4	-29.4
22	-22.1	-19.6
23	-22.0	-19.5
24	-12.3	-29.3
25	-24.4	-29.4
26	-29.2	-29.4
27	-29.2	-29.3
28	-29.2	-29.4
29	-	-29.4
30	-29.9	-30.0
31	-27.2	-27.3
32	-27.2	-27.2
33	-27.2	-27.2
34	-27.2	-27.2
35	-27.1	-27.2
36	-27.1	-27.2
37	-27.1	-27.2
38	-27.1	-27.2
39	-27.1	-27.2
40	-27.1	-27.2
41	-27.1	-27.2
42	-27.1	-27.2
43	4.9	5.0
44	0	0
IC7002		
1	4.9	4.9
2	4.9	5.0
3	0	0
Q7001		
E	0	0
C	0	0
B	4.9	4.9
Q7002		
E	0	0
C	3.6	3.6
B	0	0
Q7003		
E	0	0
C	3.6	3.6
B	0	0
CN7001		
1	0	0
2	-16.6	-16.6
3	-30.0	-30.0
4	-20.9	-21.0
5	3.1	3.1
6	3.5	3.4
7	4.7	4.7
8	4.3	4.2
9	4.9	5.0
10	5.0	5.0
11	0	0
12	0	0
13	0	0
14	5.0	5.0
15	0	0

<JACK>

MODE PIN NO.	REC	PLAY
CN4104		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.2	3.3
6	3.2	3.2

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC1001		
1	1.8	1.8
2	0	0
3	0	0
4	0.5	0.5
5	3.2	3.2
6	0	0
7	0	0
8	3.3	3.2
IC1002		
1	3.3	3.3
2	0	0
3	3.2	3.2
4	1.3	1.2
5	2.4	2.4
IC1003		
1	4.9	4.9
2	0	0
3	3.2	3.2
4	1.3	1.3
5	3.0	3.0
IC1004		
1	4.9	4.9
2	0	0
3	3.2	3.2
4	1.3	1.2
5	3.0	2.9
IC1005		
1	3.2	3.3
2	0.6	0.5
3	0	0
4	0	0
IC1501	-	-
IC1502	-	-
IC1503	-	-
IC1504	-	-
IC2001	-	-
IC2101		
1	0	0.3
2	0	0.4
3	0	0
4	2.1	2.2
5	1.2	1.3
6	1.4	1.6
7	2.9	3.2
8	1.4	1.5
IC2102		
1	1.5	1.5
2	1.5	1.5
3	0	0
4	0.4	0.5
5	3.3	3.2
IC3001		
1	0	0
2	2.9	3.0
3	1.0	1.1
4	0.3	0.4
5	0.7	0.7
6	1.6	1.6
7	0.4	0.4
8	1.0	1.0
9	0	0
10	2.9	2.9
11	1.6	1.1
12	1.0	0.5
13	0	0
14	0	3.0
15	1.2	1.3
16	0.2	0.4
17	2.3	2.3
18	1.3	1.3
19	0	0
20	0	0
21	0	0
22	0	0
23	3.2	3.2
24	3.2	3.3
25	1.6	1.6
26	1.2	0
27	1.2	0
28	1.1	0
29	1.5	1.4
30	0	0
31	3.3	3.3
32	1.9	0
33	1.0	0
34	0.7	0
35	0.6	0
36	3.2	3.2
37	1.7	1.7
38	1.2	1.1
39	1.2	1.2
40	1.0	1.1
41	1.5	1.5
42	1.9	1.6
43	1.0	1.0
44	0.8	0.8

MODE PIN NO.	REC	PLAY
45	0.6	0.7
46	0	0
47	0	0
48	0	0
49	0.2	0.2
50	3.2	3.2
51	2.3	2.0
52	0	0
53	3.2	3.3
54	1.4	1.5
55	3.2	3.3
56	3.3	3.3
57	0	0
58	0	0
59	3.0	3.0
60	3.2	3.3
61	1.5	1.5
62	0	0
63	3.2	3.2
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	3.0	3.0
74	1.0	1.1
75	0.5	0.5
76	0.7	0.8
77	1.6	1.7
78	0.5	0

■ VOLTAGE CHARTS

<JUNCTION>

MODE PIN NO.	REC	PLAY
IC5502		
1	5.0	5.1
2	0	0
3	0	0
4	3.3	3.4
5	4.9	4.9
6	0	0
7	5.8	5.9
IC5505		
1	3.3	3.3
2	0	0
3	0	0
4	1.9	1.9
5	4.9	4.9
6	0	0
7	4.2	4.2
IC5506		
1	0	0
2	5.9	5.8
3	3.0	3.0
4	0	0
5	2.6	2.6
6	0.9	0.9
7	0	0.2
8	5.8	5.9
9	3.6	3.6
10	0	0
11	0	0
12	0	0
13	1.0	1.0
14	1.8	1.8
15	1.8	1.9
16	4.9	0
IC8001		
1	0	0
2	0	0
3	0	0
4	-7.4	-7.4
5	0	0
6	0	0
7	0	0
8	9.4	9.4
IC8002		
1	2.5	2.5
2	2.5	2.5
3	0	0
4	2.5	2.5
5	0	0
6	5.0	5.0
7	0	3.3
8	0	0
9	1.2	1.2
10	1.6	1.6
11	1.7	1.7
12	1.7	1.6
13	3.2	3.2
14	3.3	3.3
15	0	0
16	0	0
IC8201		
1	0	0
2	1.3	1.2
3	1.3	1.3
4	-7.4	-7.5
5	1.3	1.3
6	0	1.3
7	0	0
8	9.4	9.4
IC8202		
1	1.5	1.7
2	1.6	1.6
3	1.6	0
4	1.6	1.6
5	3.3	3.3
6	3.3	3.3
7	2.7	2.8
8	0.2	0
9	2.4	2.4
10	2.4	2.4
11	2.4	2.4
12	2.4	2.4
13	0	0
14	5.0	5.0
15	0	0
16	0	0
Q5501		
E	-7.4	-7.5
C	-7.4	-7.4
B	-6.6	-6.8
Q5502		
E	5.8	5.8
C	5.8	5.8
B	0	0
Q5503		
E	-16.5	-16.6
C	-16.4	-16.5
B	-15.7	-15.8

MODE PIN NO.	REC	PLAY
Q5504		
E	0	0
C	0	0
B	4.2	4.2
Q5505		
E	5.8	5.9
C	5.7	5.7
B	0.6	0.5
Q5506		
E	0	0
C	0	0
B	5.0	5.0
Q5507		
E	5.2	5.2
C	5.8	5.8
B	5.8	5.8
Q5508		
E	12.2	12.3
C	12.2	12.2
B	11.5	11.5
Q5509		
E	5.1	5.1
C	5.0	5.0
B	4.4	4.3
Q5510		
E	0	0
C	0.5	0.4
B	4.9	4.9
Q7101		
E	1.8	1.8
C	0	0
B	1.2	1.2
Q8001		
E	0	0
C	0	0
B	-0.8	-2.0
Q8002		
E	0	0
C	0	0
B	-0.7	-1.8
Q8003		
E	0	0
C	5.0	5.0
B	0	0
Q8004		
E	0	0
C	5.0	5.0
B	0	0
Q8005		
E	5.0	5.0
C	-0.6	-2.0
B	5.0	5.0
CN5501		
1	-16.4	-16.4
2	-20.9	-21.0
3	-29.9	-29.9
4	-7.4	-7.4
5	10.8	10.8
6	0	0
7	0	0
8	5.8	5.8
9	0	0
10	4.9	5.0
11	4.1	4.2
12	0	0
13	0	0
14	5.9	5.9
15	5.9	5.9
16	12.2	12.3
17	5.9	5.9
18	5.1	5.1
19	4.6	4.6
CN5502		
1	0	0
2	0	0
3	3.3	3.3
4	2.6	2.6
5	1.8	1.8
6	1.8	1.8
CN5504		
1	12.2	12.2
2	0	0
3	0	0
4	4.9	4.9
CN7102		
1	0	0
2	0	0
3	5.0	5.0
4	4.3	4.1
5	-	-
6	0.4	0.4
7	0	0
8	0	0
9	4.2	4.2
10	0.7	0.9
11	0.3	0
12	0	0

MODE PIN NO.	REC	PLAY
13	5.0	5.0
14	4.6	4.5
15	-16.5	-16.6
16	-20.9	-21.0
17	-29.9	-29.9
18	5.0	5.0
19	0	0
CN7106		
1	2.4	2.4
2	0	0
3	3.3	3.2
4	3.3	3.3
CN7107		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0.6	0.5
7	0	0
8	0	0
9	1.8	1.8
10	0	0
11	0.6	0.6
12	0	0
13	0.6	0.6
CN7108		
1	1.6	1.6
2	1.1	1.1
3	1.6	1.6
4	0	0
5	1.6	1.6
6	1.2	1.1
7	0	0
8	0	0
9	1.0	1.0
10	0.6	0.6
11	0.5	0.4
12	0	0
13	3.3	3.2
14	0.6	0.4
15	0	0
16	0	0
17	0	0
18	2.3	2.3
19	1.6	1.7
20	1.8	1.8
21	3.3	3.2
22	0	0
23	3.3	3.3
24	1.5	1.6
25	0.2	0.1
26	1.7	1.6
27	2.7	2.6
28	1.6	1.6
CN7109		
1	0	0
2	4.0	4.3
3	0	0
4	2.2	2.6
5	1.2	1.2
6	5.0	5.0
7	4.2	4.2
8	0.3	0.7
9	0	0
10	5.2	5.2
11	0.1	0
12	0	0
13	0.3	0.4
14	5.0	5.0
15	5.0	0
16	3.3	3.3
17	0	0
18	0	0
19	1.6	1.7
20	0	0
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
CN7121		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	3.3	3.3
7	3.2	3.1
8	0	0
9	0	0
10	0	0
11	1.8	1.7
12	1.8	1.8

MODE PIN NO.	REC	PLAY
13	1.8	1.8
14	1.8	1.8
CN7123		
1	2.3	2.3
2	0	0
3	1.8	1.8
4	0	0
CN7124		
1	2.4	2.4
2	0	0
3	3.3	3.3
4	3.3	3.2
CN7126		
1	3.2	3.2
2	3.2	3.3
3	0	0
4	0	0
5	0	0
6	0	0
CN7127		
1	1.8	1.8
2	1.8	1.7
3	0	0
4	1.8	1.8
5	1.8	1.8
6	0	0
CN8001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	3.3	3.3
11	1.6	1.7

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD063)

Printed in Japan
VPT

PARTS LIST

[SR-DVM70US]

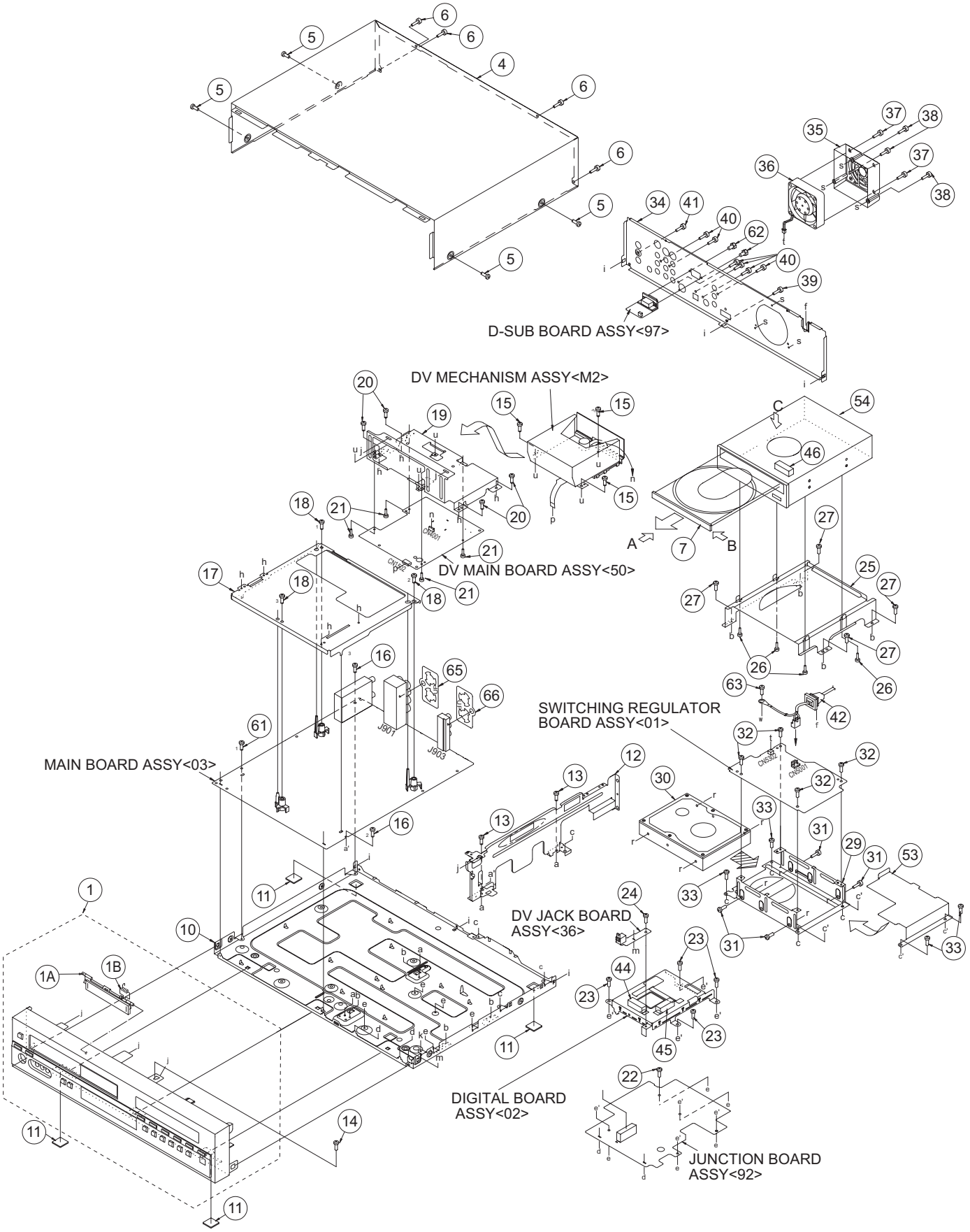
* SAFETY PRECAUTION
  Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
* BEWARE OF BOGUS PARTS
  Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.
* (x_) in a description column shows the number of the used part.

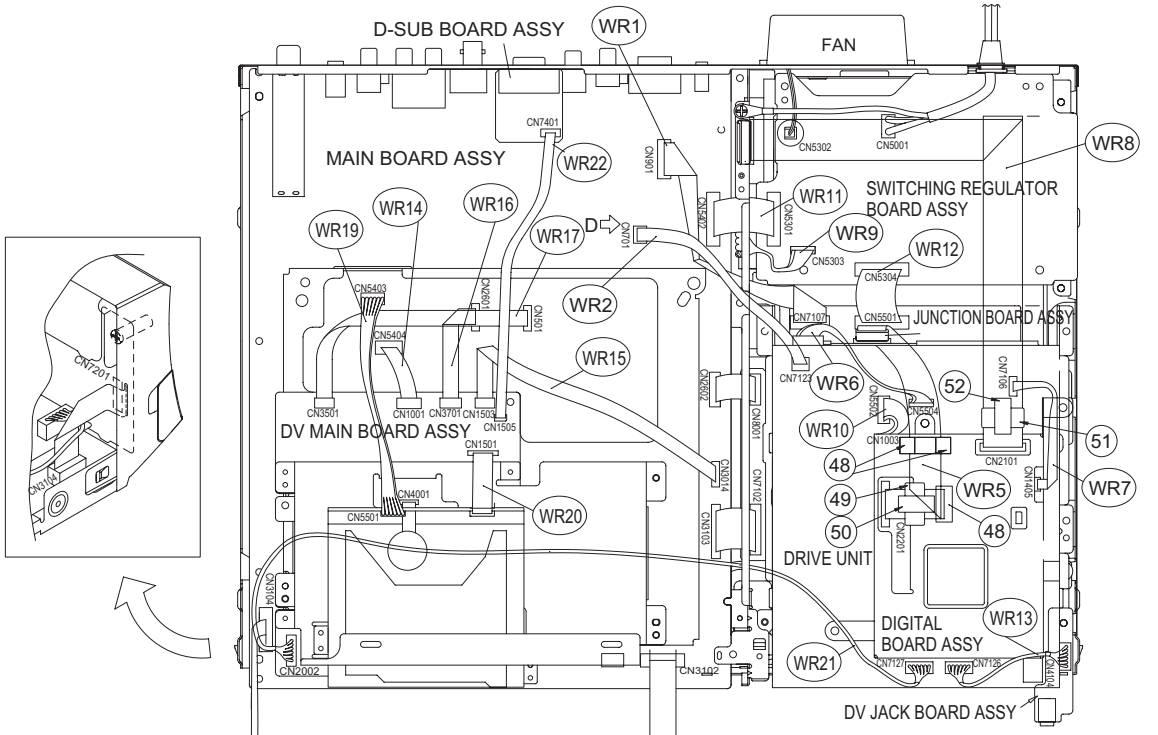
- Contents -

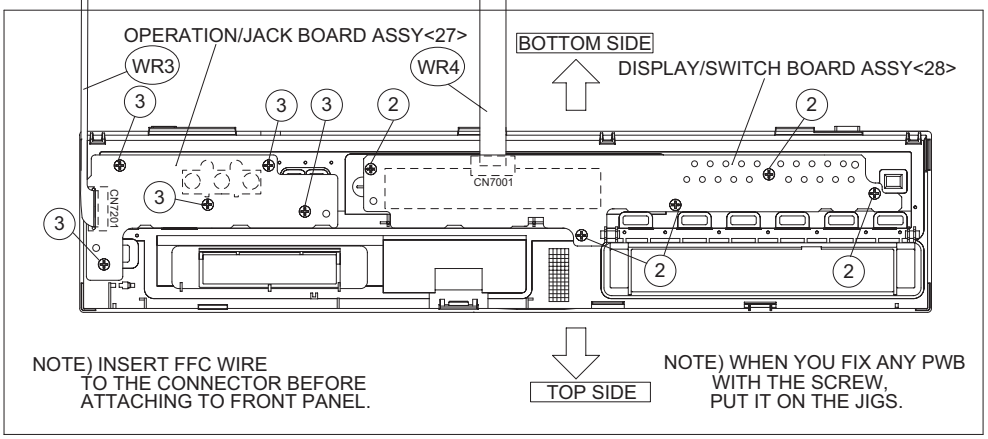
Exploded view of general assembly and parts list 3-2
DV mechanism assembly and parts list 3-6
Electrical parts list 3-9
Packing materials and accessories parts list 3-26

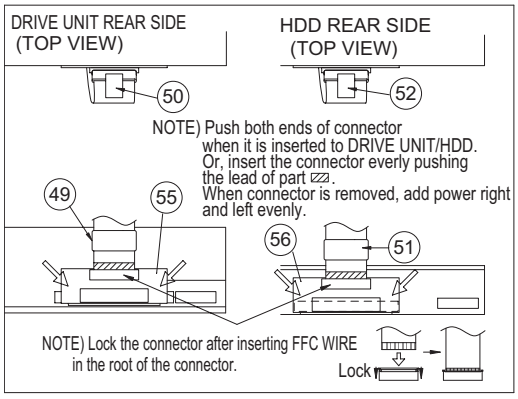
Exploded view of general assembly and parts list

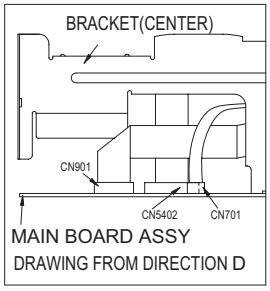
Block No. M1MM

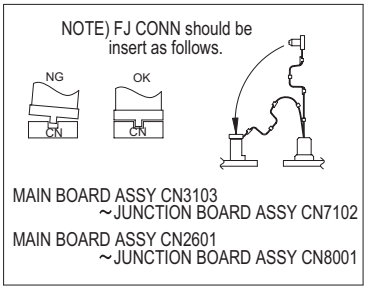


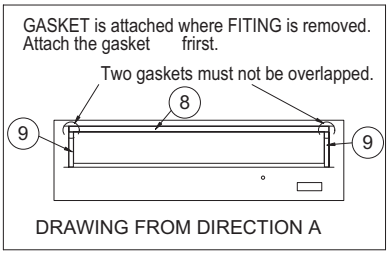

D-SUB BOARD ASSY
WR1
FAN
MAIN BOARD ASSY
WR22
WR8
WR14
WR16
WR11
SWITCHING REGULATOR BOARD ASSY
WR19
WR17
WR9
WR12
WR2
WR15
WR6
52
JUNCTION BOARD ASSY
DV MAIN BOARD ASSY
WR10
51
48
WR5
WR7
49
50
WR20
DRIVE UNIT
DIGITAL BOARD ASSY
WR13
WR21
DV JACK BOARD ASSY

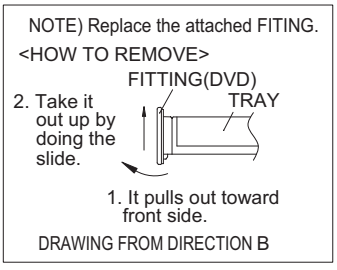

OPERATION/JACK BOARD ASSY<27>
BOTTOM SIDE
DISPLAY/SWITCH BOARD ASSY<28>
WR3
WR4
NOTE) INSERT FFC WIRE TO THE CONNECTOR BEFORE ATTACHING TO FRONT PANEL.
TOP SIDE
NOTE) WHEN YOU FIX ANY PWB WITH THE SCREW, PUT IT ON THE JIGS.

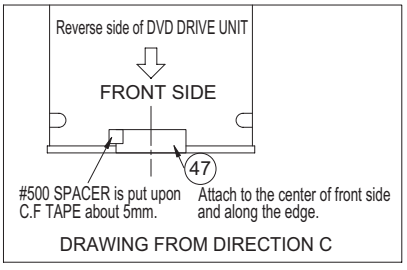

DRIVE UNIT REAR SIDE (TOP VIEW)
HDD REAR SIDE (TOP VIEW)
NOTE) Push both ends of connector when it is inserted to DRIVE UNIT/HDD. Or, insert the connector everly pushing the lead of part ▨. When connector is removed, add power right and left evenly.
NOTE) Lock the connector after inserting FFC WIRE in the root of the connector.
Lock


BRACKET(CENTER)
MAIN BOARD ASSY
DRAWING FROM DIRECTION D


NOTE) FJ CONN should be insert as follows.
NG
OK
MAIN BOARD ASSY CN3103 ～JUNCTION BOARD ASSY CN7102
MAIN BOARD ASSY CN2601 ～JUNCTION BOARD ASSY CN8001


GASKET is attached where FITING is removed. Attach the gasket frirst.
Two gaskets must not be overlapped.
DRAWING FROM DIRECTION A


NOTE) Replace the attached FITING.
<HOW TO REMOVE>
FITTING(DVD)
TRAY
2. Take it out up by doing the slide.
1. It pulls out toward front side.
DRAWING FROM DIRECTION B


Reverse side of DVD DRIVE UNIT
FRONT SIDE
#500 SPACER is put upon C.F TAPE about 5mm.
Attach to the center of front side and along the edge.
DRAWING FROM DIRECTION C

General assembly

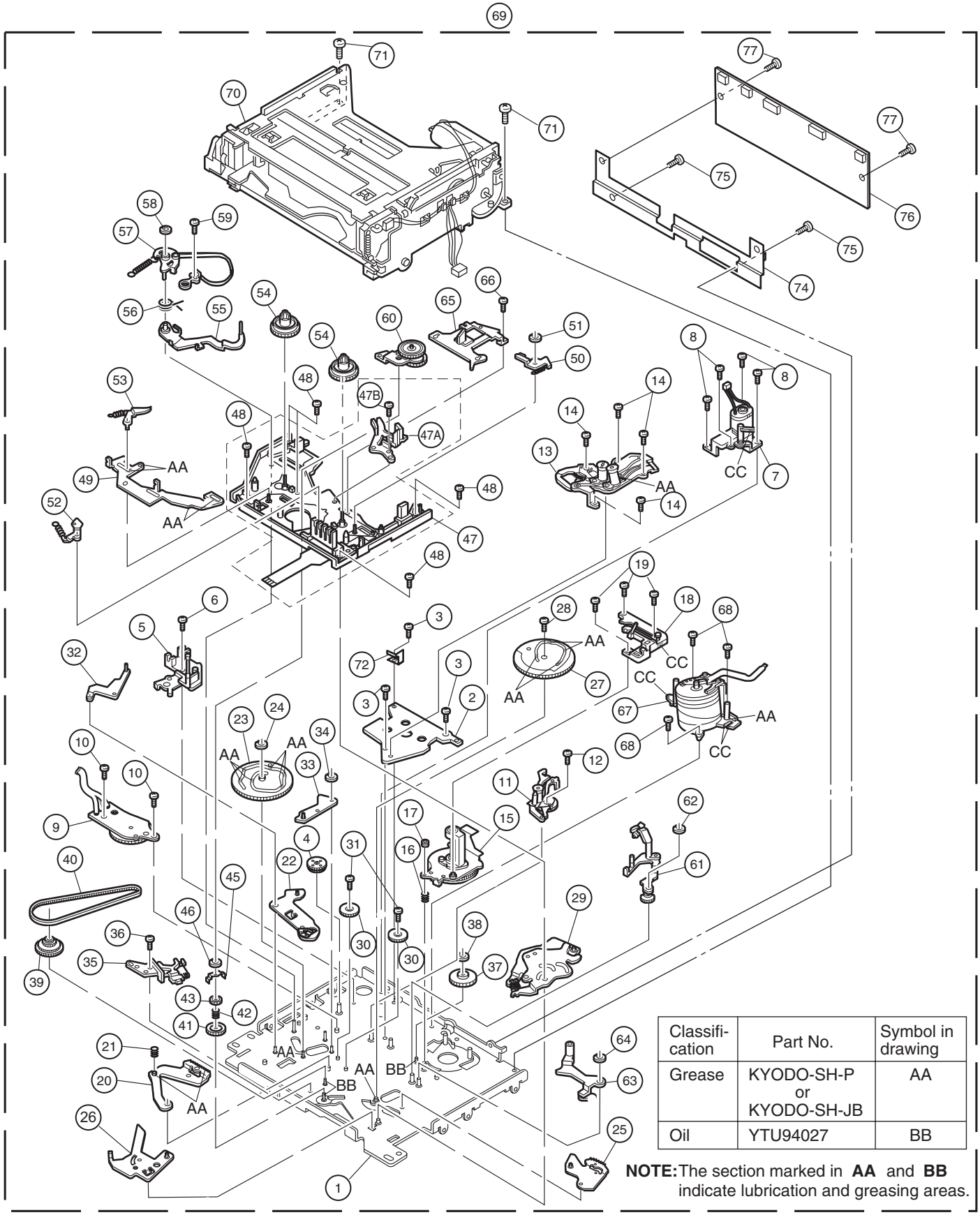
Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 1	LP10574-002C	FRONT PANEL ASSY		
1A	LP30756-006A	CASSETTE DOOR(DV)		
1B	LP40688-001A	SPRING(DV)		
2	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm DISPLAY/SWITCH(x5)	
3	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm OPERATION/JACK(x5)	
⚠ 4	LP10460-012A	TOP COVER		
5	QYSBSG3006MA	TAP SCREW	M3 x 6mm TOP SIDE(x4)	
6	QYSBSG3006MA	TAP SCREW	M3 x 6mm TOP REAR(x4)	
7	LP21348-002B	FITTING(DVD)		
8	LP41217-001A	GASKET		
9	LP41218-001A	GASKET	(x2)	
⚠ 10	LP10525-002B	BOTTOM CHASSIS		
11	LP31348-001A	FOOT	(x4)	
12	LP21294-001B	BRACKET(CENTER)		
13	LP31391-001A	SPECIAL SCREW	BRACKET(CENTER)(x2)	
14	LP31391-001A	SPECIAL SCREW	FRONT PANEL	
15	QYTDST2608ZA	TAP SCREW	M2.6 x 8mm DV MECHANISM(x3)	
16	LP31391-001A	SPECIAL SCREW	MAIN(x2)	
17	LP21345-001A	BRACKET(DV MAIN)		
18	LP31391-002A	SPECIAL SCREW	BRACKET(DV MAIN)(x3)	
19	LP21346-001A	BRACKET(DV SUB)		
20	QYTDST3006ZA	TAP SCREW	M3 x 6mm BRACKET(DV SUB)(x4)	
21	QYTDST2608ZA	TAP SCREW	M2.6 x 8mm DV MAIN(x4)	
22	LP31391-001A	SPECIAL SCREW	JUNCTION	
23	LP31391-001A	SPECIAL SCREW	SHIELD FRAME(DIGITAL)(x4)	
24	LP31391-001A	SPECIAL SCREW	DV JACK	
25	LP21299-001C	LOADER BRACKET		
26	QYTDST3006ZA	TAP SCREW	M3 x 6mm DRIVE UNIT(x4)	
27	LP31391-001A	SPECIAL SCREW	LOADER BRACKET(x4)	
29	LP21297-001B	BRACKET(HDD/SWITCHING REGLATOR)		
30	LPH40267-022A	HDD	(SERVICE)	
31	LP40738-001B	SCREW	HDD(x4)	
32	LP31391-001A	SPECIAL SCREW	SWITCHING REGULATOR(x4)	
33	LP31391-001A	SPECIAL SCREW	BRACKET(HDD/SWITCHING REGULATOR)(x4)	
⚠ 34	LP21295-007A	REAR COVER		
⚠ 35	LP21296-001B	COVER(FAN)		
36	QAR0349-001	COOLING FAN		
37	QYTDSF3010MA	TAP SCREW	M3 x 10mm FAN(x2)	
38	QYSBSG3006MA	TAP SCREW	M3 x 6mm COVER(FAN)(x3)	
39	QYSBSG3006NA	TAP SCREW	M3 x 6mm REAR COVER	
40	QYTDSF3008MA	TAP SCREW	M3 x 8mm JACK COVER(x6)	
41	QYTDST3005MA	TAP SCREW	M3 x 5mm TUNER	
⚠ 42	QMPD660-176-JC	POWER CORD	1.76m BLACK	
44	LP41171-001A	SHIELD TIGHT		
45	LP41171-001A	SHIELD TIGHT		
46	LP41171-001A	SHIELD TIGHT		
47	LP41209-002A	C.F TAPE		
48	LP30002-0A9A	SPACER	(x3)	
49	QQR1439-003	FERRITE CORE	(x2)	
50	LP30002-0A9A	SPACER	(x2)	
51	QQR1439-003	FERRITE CORE	(x2)	
52	LP30002-0A9A	SPACER	(x2)	
⚠ 53	LP31465-001A	SHEET(HDD)		
⚠ 54	QAL0651-001	DRIVE UNIT		
55	QGZ0021A1-40	CONNECTOR	(1-40)	
56	QGZ0021A1-40	CONNECTOR	(1-40)	
61	QYSBSGG3006ZA	TAP SCREW	M3 x 6mm MAIN	
62	QNB0037-001	CONN ACCESSORY	(x2)	
63	LP31391-001A	SPECIAL SCREW	POWER CORD	
65	LP31345-001A	EARTH PLATE		
66	LP31345-001A	EARTH PLATE		
WR 1	QUQ112-1318CG-E	FFC WIRE	JUNCTION CN7107-MAIN CN901	
WR 2	QUQ212-0416CG-E	FFC WIRE	JUNCTION CN7123-MAIN CN701	
WR 3	QUQ112-1510CG-E	FFC WIRE	OPERATON/JACK CN7201-MAIN CN3104	
WR 4	QUQ112-1510CG-E	FFC WIRE	DISPLAY/SWITCH CN7001-MAIN CN3102	
WR 5	QUQ105-4022AF-E	FFC WIRE	DRIVE UNIT-DIGITAL CN2201	
WR 6	QJJ032-041504-E	SIN CR C-C WIRE	DRIVE UNIT-JUNCTION CN5504	
WR 7	QUQ210-0408CC-E	FFC WIRE	DIGITAL CN1405-JUNCTION CN7106	
WR 8	QUQ105-4040AF-E	FFC WIRE	HDD-DIGITAL CN2101	
WR 9	QJJ032-041504-E	SIN CR C-C WIRE	HDD-SWITCHING REGULATOR CN5303	
WR10	QJJ015-060801-E	SIN CR C-C WIRE	DIGITAL CN1003-JUNCTION CN5502	
WR11	QUQ212-1512CG-E	FFC WIRE	SWITCHING REGULATOR CN5301-MAIN CN5402	
WR12	QUQ212-1912CG-E	FFC WIRE	SWITCHING REGULATOR CN5304-JUNCTION CN5501	
WR13	WJN0085-003A-E	E-SH C WIRE C-C	DV JACK CN4104-JUNCTION CN7126	
WR14	QUQ212-0807CG-E	FFC WIRE	DV MAIN CN1001-MAIN CN5404	
WR15	QUQ210-0720CC-E	FFC WIRE	DV MAIN CN1503-MAIN CN3014	
WR16	QUQ210-0808CC-E	FFC WIRE	DV MAIN CN3701-MAIN CN2601	
WR17	QUQ210-0717CC-E	FFC WIRE	DV MAIN CN3501-MAIN CN501	
WR19	QJA002-051800-E	SIN ID C-C WIRE	MDA-MAIN CN5403	

⚠ Symbol No.	Part No.	Part Name	Description	Local
WR20	QUQ105-2008AA-E	FFC WIRE	MDA-DV MAIN CN1501	
WR21	WJN0085-004A-E	E-SH C WIRE C-C	JUNCTION CN7127-DV MAIN CN2002	
WR22	QUQ210-0422CC-E	FFC WIRE	D-SUB CN7401-DV MAIN CN1505	

DV mechanism assembly and parts list

Block No. M2MM



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P or KYODO-SH-JB	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

DV mechanism

Block No. [M][2][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	PRD10428A	MAIN DECK ASSY		
2	LY30358-001B	DRUM BASE DECK		
3	YQ43893	MINI SCREW		(x3)
4	LY30343-001A	WORM WHEEL 2		
5	LY40237-001C	ENT.GUIDE BASE ASSY		
6	YQ43893	MINI SCREW		
7	LY30341-001B	MOTOR BRACKET ASSY		
8	YQ43893	MINI SCREW		(x4)
9	LY41190-003A	ROTARY ENCODER ASSY		
10	YQ43893	MINI SCREW		(x2)
11	YQ31873D-33	GUIDE RAIL(SUPPLY)ASSY		
12	YQ43893	MINI SCREW		
13	LY20097-003B	GUIDE RAIL(TAKE UP) ASSY		
14	YQ43893	MINI SCREW		(x4)
15	QAR0012-002	CAPSTAN MOTOR		
16	LY30002-003A	COMPRESSION SPRING		
17	LY41390-001B	ADJUST NUT		
18	LY30345-001A	MIDDLE CATCHER ASSY		
19	YQ43893	MINI SCREW		(x3)
20	LY40223-001A	ARM GEAR 1 ASSY		
21	LY40224-001A	COLLAR		
22	LY40235-002B	CENTERRING ARM ASSY		
23	LY10060-003A	MAIN CAM		
24	YQ44246	SLIT WASHER		
25	LY40279-001A	ARM GEAR 2 ASSY		
26	LY40228-001A	CLUTCH LOCK LEVER ASSY		
27	LY20102-001A	SUB CAM		
28	YQ43893	MINI SCREW		
29	LY30347-001A	CHARGE ARM ASSY		
30	YQ44560-1-2	CONNECT GEAR 2		(x2)
31	YQ43893	MINI SCREW		(x2)
32	LY40236-001A	TENSION CONTROL ARM ASSY		
33	LY40233-001A	BRAKE CONTROL ARM ASSY		
34	YQ44246	SLIT WASHER		
35	LY40242-001C	BASE PLATE ASSY		
36	YQ43893	MINI SCREW		
37	PRD45311	REEL DRIVE GEAR 1		
38	YQ44246	SLIT WASHER		
39	LY40239-003A	CENTER GEAR ASSY		
40	PRD45310	TIMING BELT		
41	LY40246-001A	CLUTCH LOCK GEAR(1)		
42	LY30002-009A	COMPRESSION SPRING		
43	LY40247-001A	CLUTCH LOCK GEAR(2)		
45	LY40248-001A	PUSH PLATE		
46	YQ44246	SLIT WASHER		
47	PRD31443B-03	SUB DECK ASSY(G)		
47A	LY20108-001B	PRISM ASSY		
47B	YQ43893	MINI SCREW		
48	YQ43893	MINI SCREW		(x5)
49	LY20109-001B	CONTROL PLATE		
50	LY40257-001A	SUB BRAKE ASSY		
51	YQ44246	SLIT WASHER		
52	LY40259-001A	MAIN BRAKE(TAKE UP)		
53	LY40260-003A	MAIN BRAKE(SUPPLY)		
54	LY40255-003A	REEL DISK ASSY		(x2)
55	LY41245-001B	TENSION ARM SUB ASSY		
56	LY41243-001A	TORSION SPRING		
57	LY41246-003B	BAND ARM PLATE SUB ASSY		
58	PRD45316	SLIT WASHER		
59	YQ43893-7	MINI SCREW		
60	LY30370-002C	SWING ARM ASSY		
61	LY30380-001D	EXIT GUIDE ARM ASSY		
62	YQ44246	SLIT WASHER		
63	LY30374-001B	PINCH ROLLER ARM ASSY		
64	YQ44246	SLIT WASHER		
65	LY40280-003A	REEL COVER ASSY		
66	YQ43893	MINI SCREW		
67	YDV2100A	DRUM ASSY		
68	YQ43893	MINI SCREW		(x3)
69	LL30228-1A-H	DV MECHA UNIT		
70	LY30428-005A	CASSETTE HOUSING ASSY		
71	QYSDSP2005ZA	SCREW	M2 x 5mm	(x2)
72	PRD45370	ASSIST GUIDE		
74	LL30210-001B-H	BRACKET(MDA)		

⚠ Symbol No.	Part No.	Part Name	Description	Local
75	QYSDSP2002N	SCREW		M2 x 2mm(x2)
76	LK2119A0A-H2	DV MDA BOARD ASSY		
77	QYSDST2605ZA	TAP SCREW		M2.6 x 5mm(x2)

Electrical parts list

Switching regulator board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A1	SWITCHING REGULATOR BOARD ASSY		
IC5101	STR-G6653-F9	IC		
IC5301	UTCTL431-T	IC		
IC5301 or	MM1431AT-T	IC		
IC5301 or	L5431-T	IC		
IC5301 or	TL431/A/-T	IC		
Q5303	DTA114EKA-X	DIGI TRANSISTOR		
Q5303 or	UN2111-X	TRANSISTOR		
Q5303 or	RT1P141C-X	DIGI TRANSISTOR		
Q5304	DTC114EKA-X	DIGI TRANSISTOR		
Q5304 or	UN2211-X	TRANSISTOR		
Q5304 or	RT1N141C-X	DIGI TRANSISTOR		
Q5305	2SD2144S/UV/-T	TRANSISTOR		
Q5305 or	2SC3576-JVC-T	TRANSISTOR		
Q5306	2SC5739/QP/	TRANSISTOR		
Q5306 or	2SD2394/EF/	TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5308	DTC114EKA-X	DIGI TRANSISTOR		
Q5308 or	UN2211-X	TRANSISTOR		
Q5308 or	RT1N141C-X	DIGI TRANSISTOR		
Q5313	2SA1585S/QR/-T	TRANSISTOR		
Q5314	2SA1585S/QR/-T	TRANSISTOR		
Q5315	DTC114EKA-X	DIGI TRANSISTOR		
Q5315 or	UN2211-X	TRANSISTOR		
Q5315 or	RT1N141C-X	DIGI TRANSISTOR		
D5001	D3SBA60	DIODE		
D5001 or	D3SBA60	DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	AU01Z-T2	FR DIODE		
D5103 or	10ERB20-T2	FR DIODE		
D5103 or	10ERB20-T2	FR DIODE		
D5103 or	AU01Z-T2	FR DIODE		
D5103 or	AU01Z-T2	FR DIODE		
D5104	1SS133-T2	SI DIODE		
D5104 or	1SS270A-T2	SI DIODE		
D5105	10ERB20-T2	FR DIODE		
D5105 or	10ERB20-T2	FR DIODE		
D5105 or	AU01Z-T2	FR DIODE		
D5105 or	AU01Z-T2	FR DIODE		
D5105 or	AU01Z-T2	FR DIODE		
D5106	10ERB20-T2	FR DIODE		
D5106 or	10ERB20-T2	FR DIODE		
D5106 or	AU01Z-T2	FR DIODE		
D5106 or	AU01Z-T2	FR DIODE		
D5106 or	AU01Z-T2	FR DIODE		
D5202	1SR156-400-X	SI DIODE		
D5203	RL2Z-LFB2	FR DIODE		
D5204	D1FS4A-X	SB DIODE		
D5205	RK34-LFB2	SB DIODE		
D5207	D1FS4A-X	SB DIODE		
D5208	AW04-T2	SB DIODE		
D5208 or	AW04-T2	SB DIODE		
D5208 or	AW04-T2	SB DIODE		
D5209	RK34-LFB2	SB DIODE		
D5210	AU01Z-T2	FR DIODE		
D5210 or	AU01Z-T2	FR DIODE		
D5210 or	10ERB20-T2	FR DIODE		
D5210 or	AU01Z-T2	FR DIODE		
D5210 or	10ERB20-T2	FR DIODE		
D5211	10ERB20-T2	FR DIODE		
D5211 or	AU01Z-T2	FR DIODE		
D5211 or	10ERB20-T2	FR DIODE		
D5211 or	AU01Z-T2	FR DIODE		
D5212	D1FS4A-X	SB DIODE		
D5213	AU01Z-T2	FR DIODE		
D5213 or	10ERB20-T2	FR DIODE		
D5213 or	10ERB20-T2	FR DIODE		
D5213 or	AU01Z-T2	FR DIODE		
D5213 or	AU01Z-T2	FR DIODE		
D5301	MTZJ15A-T2	Z DIODE		
D5301 or	MTZJ15A-T2	Z DIODE		
D5303	MTZJ12C-T2	Z DIODE		
D5303 or	MTZJ12C-T2	Z DIODE		
D5304	MTZJ5.6C-T2	Z DIODE		
D5304 or	MTZJ5.6C-T2	Z DIODE		
D5306	RK34-LFB2	SB DIODE		
D5307	1SS133-T2	SI DIODE		
⚠ PC5101	PC123Y22FZ	PHOTO COUPLER		
⚠ C5001	QFZ9073-683	MM CAPACITOR	0.068uF AC250V	M
⚠ C5002	QFZ9073-223	MM CAPACITOR	0.022uF AC250V	M
C5003	QEZ0639-337	E CAPACITOR	330uF 200V	M
⚠ C5004	QCZ9079-472	C CAPACITOR	4700pF AC250V	M
⚠ C5005	QCZ9079-101	C CAPACITOR	100pF AC250V	K
C5101	QCZ0353-101Z	C CAPACITOR	100pF 1kV	K
C5102	QCZ0349-472Z	C CAPACITOR	4700pF 1kV	K
C5103	QEMU1VM-276Z	E CAPACITOR	27uF 35V	M
C5104	QCZ0136-471Z	C CAPACITOR	470pF 1kV	K
C5105	QFLC1HJ-471Z	M CAPACITOR	470pF 50V	J
C5106	NCB31HK-103X	C CAPACITOR	0.01uF 50V	K
C5107	NCB31HK-221X	C CAPACITOR	220pF 50V	K
C5202	QETN2AM-475Z	E CAPACITOR	4.7uF 100V	M
C5203	QEMT1CM-687	E CAPACITOR	680uF 16V	M
C5204	QEMT1CM-687	E CAPACITOR	680uF 16V	M
C5205	QEMT1AM-128	E CAPACITOR	1200uF 10V	M
C5206	QEMT1AM-128	E CAPACITOR	1200uF 10V	M
C5207	QEMT1CM-687	E CAPACITOR	680uF 16V	M
C5208	QEMT1AM-128	E CAPACITOR	1200uF 10V	M
C5209	QEMU1HM-186Z	E CAPACITOR	18uF 50V	M
C5210	QEMX0JM-227Z	E CAPACITOR	220uF 6.3V	M
C5301	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V	J
C5302	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V	J
C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V	M
C5304	QETN1CM-107Z	E CAPACITOR	100uF 16V	M
C5305	QETN1AM-107Z	E CAPACITOR	100uF 10V	M
C5306	QETN1AM-107Z	E CAPACITOR	100uF 10V	M
C5307	QETN1AM-107Z	E CAPACITOR	100uF 10V	M
C5308	QETN1AM-107Z	E CAPACITOR	100uF 10V	M
C5309	QETN1EM-476Z	E CAPACITOR	47uF 25V	M
C5310	QETN1HM-225Z	E CAPACITOR	2.2uF 50V	M
C5311	QETN1CM-107Z	E CAPACITOR	100uF 16V	M
C5312	QETN1AM-107Z	E CAPACITOR	100uF 10V	M
C5315	NCB31HK-103X	C CAPACITOR	0.01uF 50V	K
⚠ R5001	QRZ9046-475Z	C RESISTOR	4.7MΩ 1/2W	K
R5101	QRG02GJ-683	OMF RESISTOR	68kΩ 2W	J
R5102	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W	J
R5103	QRE141J-684Y	C RESISTOR	680kΩ 1/4W	J
R5104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W	J
R5105	QRE141J-680Y	C RESISTOR	68Ω 1/4W	J
R5106	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W	J
R5107	NRSA63J-681X	MG RESISTOR	680Ω 1/16W	J
R5108	QRT01DJ-R33X	MF RESISTOR	0.33Ω 1W	J
⚠ R5109	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W	J
R5301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W	J
R5302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W	J
R5303	NRVA63D-152X	CMF RESISTOR	1.5kΩ 1/16W	D
R5304	NRVA63D-682X	CMF RESISTOR	6.8kΩ 1/16W	D
R5305	NRVA63D-243X	CMF RESISTOR	24kΩ 1/16W	D
R5306	NRVA63D-392X	CMF RESISTOR	3.9kΩ 1/16W	D
R5308	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W	J
R5309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W	J
R5312	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J
R5313	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J
R5314	NRSA63J-471X	MG RESISTOR	470Ω 1/16W	J
R5315	QRE121J-101Y	C RESISTOR	100Ω 1/2W	J
R5316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J
R5317	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W	J
R5325	QRE141J-150Y	C RESISTOR	15Ω 1/4W	J
⚠ R5326	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W	J
R5327	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J
R5328	NRSA02J-471X	MG RESISTOR	470Ω 1/10W	J
R5329	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J
R5330	QRE141J-181Y	C RESISTOR	180Ω 1/4W	J

⚠ Symbol No.	Part No.	Part Name	Description	Local
L5201	QQR0934-001	CHOKE COIL		
L5202	QQR0934-001	CHOKE COIL		
L5203	QQR0934-001	CHOKE COIL		
L5204	QQR0934-001	CHOKE COIL		
L5205	QQR0934-001	CHOKE COIL		
L5206	QQR0934-001	CHOKE COIL		
L5207	QQR0934-001	CHOKE COIL		
⚠ T5001	QQS0289-001	SW TRANSF		
B5307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
CN5301	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	
CN5302	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN5303	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN5304	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
⚠ CP5301	QMFZ049-1R5Z-E	FUSE	1.5A 125V	
⚠ CP5302	QMFZ049-2R0Z-E	FUSE	2A 125V	
⚠ F5001	QMF51N2-1R6-J1	FUSE	1.6A AC250V	
FC5001	QNG0020-001Z	FUSE CLIP		
FC5002	QNG0020-001Z	FUSE CLIP		
HS1	QZW0162-001	HEAT SINK	IC5101	
⚠ LF5002	QQR0908-001	LINE FILTER		
OT1	QYTDST3008ZA	TAP SCREW	M3 x 8mm IC5101	
ST1	QZW0007-001	POST PIN		
⚠ VA5001	QAF0023-431Z	VARISTOR	430V	
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

Digital board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10256-07A	DIGITAL BOARD ASSY		
IC1001	JCP8059-2	IC		
IC1002	HY57V161610ET-8	IC		
IC1002 or	K4S161622H-UC60	IC		
IC1002 or	HY57V161610ET-8	IC		
IC1002 or	HY57V161610ETP7	IC		
IC1002 or	HY57V161610ET-8	IC		
IC1201	LPN0961-002A	IC(FLASH)	(SERVICE)	
IC1202	SN74LVC373APW-X	IC(DIGITAL)		
IC1203	SN74LVC373APW-X	IC(DIGITAL)		
IC1401	DMN8652-B0L	IC(DIGITAL)		
IC1404	SN74HCT08APW-X	IC		
IC1405	SN74LV08APW-X	IC		
IC1601	HY5DU561622DT-J	IC		
IC1601 or	HY5DU561622DT-J	IC		
IC1602	HY5DU561622DT-J	IC		
IC1602 or	HY5DU561622DT-J	IC		
IC1603	HY5DU561622DT-J	IC		
IC1603 or	HY5DU561622DT-J	IC		
IC1604	HY5DU561622DT-J	IC		
IC1604 or	HY5DU561622DT-J	IC		
IC1701	PQ015YZ01Z-X	IC		
IC1801	TSB41AB2PAP	IC		
Q1001	UN221E-X	TRANSTSTOR		
Q1001 or	DTC144WKA-X	DIGI TRANSISTOR		
Q1001 or	RT1N44HC-X	DIGI TRANSISTOR		
Q1002	2SA1037AK/QR/-X	TRANSISTOR		
Q1002 or	2SA1530A/QR/-X	TRANSISTOR		
Q1002 or	2SB709A/QR/-X	TRANSISTOR		
Q1003	2SA1037AK/QR/-X	TRANSISTOR		
Q1003 or	2SA1530A/QR/-X	TRANSISTOR		
Q1003 or	2SB709A/QR/-X	TRANSISTOR		
Q1004	2SA1037AK/QR/-X	TRANSISTOR		
Q1004 or	2SA1530A/QR/-X	TRANSISTOR		
Q1004 or	2SB709A/QR/-X	TRANSISTOR		
Q1005	2SA1037AK/QR/-X	TRANSISTOR		
Q1005 or	2SA1530A/QR/-X	TRANSISTOR		
Q1005 or	2SB709A/QR/-X	TRANSISTOR		
Q1008	UMZ1N-W	PAIR TRANSISTOR		
Q1008 or	BC847PN-X	PAIR TRANSISTOR		
Q1008 or	BC846PN-X	PAIR TRANSISTOR		
Q1009	2SC2412K/QRS/-X	TRANSISTOR		
Q1009 or	2SC3928A/QRS/-X	TRANSISTOR		
Q1009 or	2SD601A/QRS/-X	TRANSISTOR		
Q1010	2SC2412K/QRS/-X	TRANSISTOR		
Q1010 or	2SC3928A/QRS/-X	TRANSISTOR		
Q1010 or	2SD601A/QRS/-X	TRANSISTOR		
Q1011	2SC2412K/QRS/-X	TRANSISTOR		
Q1011 or	2SC3928A/QRS/-X	TRANSISTOR		
Q1011 or	2SD601A/QRS/-X	TRANSISTOR		
D1001	1SS355-X	SI DIODE		
D1001 or	MA111-X	SI DIODE		
D1002	1SS355-X	SI DIODE		
D1002 or	MA111-X	SI DIODE		
D1401	1SS355-X	SI DIODE		
D1401 or	MA111-X	SI DIODE		
D1402	1SS355-X	SI DIODE		
D1402 or	MA111-X	SI DIODE		
D1403	1SS355-X	SI DIODE		
D1403 or	MA111-X	SI DIODE		
C1001	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1048	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1051	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1053	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1065	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1080	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1082	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1083	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1091	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1092	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1095	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1096	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1404	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	
C1405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1409	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1413	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	
C1414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1420	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1423	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1425	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1427	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1435	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1436	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1437	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1438	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1439	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1442	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1444	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1445	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1446	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1450	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1455	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1457	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1458	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1461	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1463	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1464	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1465	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1466	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1467	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1468	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1469	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1470	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1471	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1472	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1473	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1474	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1602	NEX60GM-337X	E CAPACITOR	330uF 4V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1620	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1627	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1628	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1629	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1634	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1635	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1636	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1650	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1660	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1662	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1704	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1706	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1708	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1710	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1806	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1809	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1813	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1814	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1815	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1816	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
R1001	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1013	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1014	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1015	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1021	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1022	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1024	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1027	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1028	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1029	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1034	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NQR0129-002X	FERRITE BEADS		
R1036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1038	NQR0129-002X	FERRITE BEADS		
R1039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1040	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1041	NQR0129-002X	FERRITE BEADS		
R1042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1043	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1044	NQR0129-002X	FERRITE BEADS		

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1045	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1046	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1047	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1050	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1054	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1057	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1059	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1060	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1061	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1065	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1068	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1069	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1070	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1071	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1217	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1218	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F	
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1416	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1417	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1437	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1438	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1444	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1445	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1446	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1447	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1448	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1449	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1450	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1451	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1452	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1453	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1455	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1458	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1459	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1460	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1462	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1464	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1466	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1468	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1470	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1474	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1476	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1477	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1481	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1482	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1483	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1493	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1494	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1495	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1601	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1602	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1603	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1604	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1606	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1607	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1613	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1614	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1615	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1616	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1619	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1622	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1623	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1627	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1628	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1629	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1632	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1641	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1642	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1644	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1653	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1654	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1655	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1656	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1657	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1658	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1659	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1660	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1701	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1703	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1704	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1822	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1823	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1824	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1825	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1826	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1827	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R2101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2104	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2105	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2107	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2108	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2110	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2111	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2112	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2114	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2115	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2204	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2205	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2206	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2207	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2208	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2209	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2210	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2211	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2212	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2214	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2215	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
RA1001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1006	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1201	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1202	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1203	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1204	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1401	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1402	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1403	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1404	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1405	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1406	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1407	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1408	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1409	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1410	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1411	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1609	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1610	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1611	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1612	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1613	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1614	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1615	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1616	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1617	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1618	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1619	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1620	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1621	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1622	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1623	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1624	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1625	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1626	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1627	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1628	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1629	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1630	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1631	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1632	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1801	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1802	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA2101	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2102	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2103	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2104	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2208	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2209	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2210	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2211	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
L1004	NQL144K-100X	P COIL	10uH K	
L1801	NQL144K-100X	P COIL	10uH K	
T1801	NQR0514-002X	FILTER COIL		
T1802	NQR0514-002X	FILTER COIL		
T1803	NQR0514-002X	FILTER COIL		
T1804	NQR0514-002X	FILTER COIL		
B1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1008	NQR0339-001X	FERRITE BEADS		
B1202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1405	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN1001	QGB2027L5-28X	CONNECTOR	B-B (1-28)	
CN1002	QGB2027L5-20X	CONNECTOR	B-B (1-20)	
CN1003	QGA2001F6-06X	CONNECTOR	W-B (1-6)	
CN1403	QGF1016C2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1405	QGF1016F2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1802	QGB2027L1-14X	CONNECTOR	B-B (1-14)	
CN2101	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
CN2201	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
K1001	NQR0339-001X	FERRITE BEADS		
K1002	NQR0129-002X	FERRITE BEADS		
K1003	NQR0129-002X	FERRITE BEADS		
K1004	NQR0129-002X	FERRITE BEADS		
K1005	NQR0129-002X	FERRITE BEADS		
K1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1008	NQR0129-002X	FERRITE BEADS		
K1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1010	NQR0129-002X	FERRITE BEADS		
K1011	NQR0129-002X	FERRITE BEADS		
K1012	NQR0129-002X	FERRITE BEADS		
K1013	NQR0129-002X	FERRITE BEADS		
K1014	NQR0129-002X	FERRITE BEADS		
K1015	NQR0129-002X	FERRITE BEADS		
K1016	NQR0129-002X	FERRITE BEADS		
K1017	NQR0129-002X	FERRITE BEADS		
K1018	NQR0129-002X	FERRITE BEADS		
K1019	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1020	NQR0129-002X	FERRITE BEADS		
K1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1402	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1403	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1404	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1406	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1407	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1408	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1801	NQR0339-001X	FERRITE BEADS		
K2101	NQR0129-002X	FERRITE BEADS		
K2102	NQR0129-002X	FERRITE BEADS		
K2103	NQR0129-002X	FERRITE BEADS		
K2104	NQR0129-002X	FERRITE BEADS		
K2105	NQR0129-002X	FERRITE BEADS		
K2106	NQR0129-002X	FERRITE BEADS		
K2107	NQR0129-002X	FERRITE BEADS		
K2108	NQR0129-002X	FERRITE BEADS		
K2109	NQR0129-002X	FERRITE BEADS		
K2110	NQR0129-002X	FERRITE BEADS		

⚠ Symbol No.	Part No.	Part Name	Description	Local
K2111	NQR0129-002X	FERRITE BEADS		
K2112	NQR0129-002X	FERRITE BEADS		
K2113	NQR0129-002X	FERRITE BEADS		
K2114	NQR0129-002X	FERRITE BEADS		
K2115	NQR0129-002X	FERRITE BEADS		
K2116	NQR0129-002X	FERRITE BEADS		
K2117	NQR0129-002X	FERRITE BEADS		
K2118	NQR0129-002X	FERRITE BEADS		
K2119	NQR0129-002X	FERRITE BEADS		
K2120	NQR0129-002X	FERRITE BEADS		
K2121	NQR0129-002X	FERRITE BEADS		
K2201	NQR0129-002X	FERRITE BEADS		
K2202	NQR0129-002X	FERRITE BEADS		
K2203	NQR0129-002X	FERRITE BEADS		
K2204	NQR0129-002X	FERRITE BEADS		
K2205	NQR0129-002X	FERRITE BEADS		
K2206	NQR0129-002X	FERRITE BEADS		
K2207	NQR0129-002X	FERRITE BEADS		
K2208	NQR0129-002X	FERRITE BEADS		
K2209	NQR0129-002X	FERRITE BEADS		
K2210	NQR0129-002X	FERRITE BEADS		
K2211	NQR0129-002X	FERRITE BEADS		
K2212	NQR0129-002X	FERRITE BEADS		
K2213	NQR0129-002X	FERRITE BEADS		
K2214	NQR0129-002X	FERRITE BEADS		
K2215	NQR0129-002X	FERRITE BEADS		
K2216	NQR0129-002X	FERRITE BEADS		
K2217	NQR0129-002X	FERRITE BEADS		
K2218	NQR0129-002X	FERRITE BEADS		
K2219	NQR0129-002X	FERRITE BEADS		
K2220	NQR0129-002X	FERRITE BEADS		
K2221	NQR0129-002X	FERRITE BEADS		
LC1401	NQR0512-008X	EMI FILTER		
LC1402	NQR0512-008X	EMI FILTER		
LC1403	NQR0512-008X	EMI FILTER		
OT1	LP40769-001A	SPACER		
SD1	LP21298-001B	SHIELD FRAME(DIGITAL)		
X1401	NAX0580-001X	CXO	27.0000MHz	
X1801	NAX0666-001X	CRYSTAL	24.576000MHz	

Main board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10277-04B	MAIN BOARD ASSY		
IC201	LC74788N-9612-E	IC		
IC501	JCP8038	IC		
IC701	JCP8038-I	IC		
IC701 or	JCP8038	IC		
IC851	SN74LV08APW-X	IC		
IC901	74HC4053D-X	IC		
IC2201	CD4052BM-X	IC		
IC2202	RC4558D-X	IC		
IC2603	CD4052BM-X	IC		
IC2604	RC4558D-X	IC		
IC2604 or	BA15218F-XE	IC		
IC2605	CD4052BM-X	IC		
IC2606	RC4558D-X	IC		
IC2606 or	BA15218F-XE	IC		
IC3001	HD6432194SAE14F	IC(MCU)		MASK
IC3002	S-80827CNNB-G-W	IC		
IC3004	LPN0958-002B-61	IC(EEPROM)	*(REFER TO BELOW)	
IC5401	MM1663DH-X	IC		
IC6501	AN5832SA-W	IC		
Q212	2SC2412K/QRS/-X	TRANSISTOR		
Q212 or	2SD601A/QRS/-X	TRANSISTOR		
Q212 or	2SC3928A/QRS/-X	TRANSISTOR		
Q503	2SD601A/QRS/-X	TRANSISTOR		
Q503 or	2SC2412K/QRS/-X	TRANSISTOR		
Q503 or	2SC3928A/QRS/-X	TRANSISTOR		
Q505	2SB709A/QR/-X	TRANSISTOR		
Q505 or	2SA1037AK/QR/-X	TRANSISTOR		
Q505 or	2SA1530A/QR/-X	TRANSISTOR		
Q701	2SB709A/QR/-X	TRANSISTOR		
Q701 or	2SA1037AK/QR/-X	TRANSISTOR		
Q701 or	2SA1530A/QR/-X	TRANSISTOR		
Q703	2SD601A/QRS/-X	TRANSISTOR		
Q703 or	2SC2412K/QRS/-X	TRANSISTOR		
Q703 or	2SC3928A/QRS/-X	TRANSISTOR		
Q706	2SD601A/QRS/-X	TRANSISTOR		
Q706 or	2SC2412K/QRS/-X	TRANSISTOR		
Q706 or	2SC3928A/QRS/-X	TRANSISTOR		
Q711	2SB709A/QR/-X	TRANSISTOR		
Q711 or	2SA1037AK/QR/-X	TRANSISTOR		
Q711 or	2SA1530A/QR/-X	TRANSISTOR		
Q713	2SB709A/QR/-X	TRANSISTOR		
Q713 or	2SA1037AK/QR/-X	TRANSISTOR		
Q713 or	2SA1530A/QR/-X	TRANSISTOR		
Q901	2SB709A/QR/-X	TRANSISTOR		
Q901 or	2SA1037AK/QR/-X	TRANSISTOR		
Q901 or	2SA1530A/QR/-X	TRANSISTOR		
Q902	2SB709A/QR/-X	TRANSISTOR		
Q902 or	2SA1037AK/QR/-X	TRANSISTOR		
Q902 or	2SA1530A/QR/-X	TRANSISTOR		
Q911	2SB709A/QR/-X	TRANSISTOR		
Q911 or	2SA1037AK/QR/-X	TRANSISTOR		
Q911 or	2SA1530A/QR/-X	TRANSISTOR		
Q912	2SB709A/QR/-X	TRANSISTOR		
Q912 or	2SA1037AK/QR/-X	TRANSISTOR		
Q912 or	2SA1530A/QR/-X	TRANSISTOR		
Q913	2SB709A/QR/-X	TRANSISTOR		
Q913 or	2SA1037AK/QR/-X	TRANSISTOR		
Q913 or	2SA1530A/QR/-X	TRANSISTOR		
Q915	2SB709A/QR/-X	TRANSISTOR		
Q915 or	2SA1037AK/QR/-X	TRANSISTOR		
Q915 or	2SA1530A/QR/-X	TRANSISTOR		
Q2201	2SC2412K/QRS/-X	TRANSISTOR		
Q2201 or	2SD601A/QRS/-X	TRANSISTOR		
Q2201 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2202	2SC2412K/QRS/-X	TRANSISTOR		
Q2202 or	2SD601A/QRS/-X	TRANSISTOR		
Q2202 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2203	DTA144WKA-X	TRANSISTOR		
Q2203 or	UN211E-X	DIGI TRANSISTOR		
Q2203 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2204	DTC144WKA-X	DIGI TRANSISTOR		
Q2204 or	UN221E-X	TRANSTSTOR		
Q2204 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2601	2SC2412K/QRS/-X	TRANSISTOR		
Q2601 or	2SD601A/QRS/-X	TRANSISTOR		
Q2601 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2602	2SC2412K/QRS/-X	TRANSISTOR		
Q2602 or	2SD601A/QRS/-X	TRANSISTOR		
Q2602 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2603	DTC143TKA-X	DIGI TRANSISTOR		
Q2603 or	UN2216-X	DIGI TRANSISTOR		
Q2603 or	RT1N430C-X	DIGI TRANSISTOR		
Q2604	DTC143TKA-X	DIGI TRANSISTOR		
Q2604 or	UN2216-X	DIGI TRANSISTOR		
Q2604 or	RT1N430C-X	DIGI TRANSISTOR		
Q2605	DTA144WKA-X	TRANSISTOR		
Q2605 or	UN211E-X	DIGI TRANSISTOR		
Q2605 or	RT1P44HC-X	DIGI TRANSISTOR		
Q3004	2SC2412K/QRS/-X	TRANSISTOR		
Q3004 or	2SD601A/QRS/-X	TRANSISTOR		
Q3004 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3008	UN221L-X	DIGI TRANSISTOR		
Q3008 or	DTC143EKA-X	DIGI TRANSISTOR		
Q3008 or	RT1N431C-X	DIGI TRANSISTOR		
Q3901	UN221E-X	TRANSTSTOR		
Q3901 or	DTC144WKA-X	DIGI TRANSISTOR		
Q3901 or	RT1N44HC-X	DIGI TRANSISTOR		
Q5401	2SB709A/QR/-X	TRANSISTOR		
Q5401 or	2SA1037AK/QR/-X	TRANSISTOR		
Q5401 or	2SA1530A/QR/-X	TRANSISTOR		
Q5402	UN2111-X	TRANSISTOR		
Q5402 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5402 or	RT1N141C-X	DIGI TRANSISTOR		
Q6030	2SA1037AK/QR/-X	TRANSISTOR		

*The VCR goes to jig RCU mode after replacing the EEPROM and the VCR does not accept some RCU command.
Therefore please set the VCR to the user RCU mode after replacing the EEPROM.
The method of setting the VCR to the user RCU mode is written on the service manual.

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q6030	or 2SB709A/QR/-X	TRANSISTOR		
Q6030	or 2SA1530A/QR/-X	TRANSISTOR		
D202	1SS133-T2	SI DIODE		
D203	1SS133-T2	SI DIODE		
D204	1SS133-T2	SI DIODE		
D501	DA204U-X	SI DIODE		
D502	DA204U-X	SI DIODE		
D701	DA204U-X	SI DIODE		
D702	DA204U-X	SI DIODE		
D2601	1SS133-T2	SI DIODE		
D2601	or 1SS270A-T2	SI DIODE		
D3002	1SS133-T2	SI DIODE		
D3002	or 1SS270A-T2	SI DIODE		
D3003	MTZJ39C-T2	Z DIODE		
D3003	or MTZJ39C-T2	Z DIODE		
D3004	10EDB20-T2	SI DIODE		
D3004	or 10EDB20-T2	SI DIODE		
D3005	10EDB20-T2	SI DIODE		
D3005	or 10EDB20-T2	SI DIODE		
D3007	1SS355-X	SI DIODE		
D3007	or MA111-X	SI DIODE		
D5401	10EDB20-T2	SI DIODE		
D5402	10EDB20-T2	SI DIODE		
D5403	10EDB20-T2	SI DIODE		
D6002	HZ30-2L-T2	Z DIODE		
C201	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C202	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C204	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C207	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C208	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C209	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C211	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C212	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C213	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C219	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C221	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C222	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C223	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C224	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C225	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C226	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C501	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C503	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C505	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C506	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C508	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C510	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C512	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C513	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C515	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C516	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C518	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C519	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C520	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C521	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C522	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C523	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C525	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C527	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C528	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C529	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C530	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C533	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C534	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C537	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C539	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C540	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C541	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C545	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C546	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C547	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C549	NDC31HJ-100X	C CAPACITOR	10pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C550	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C552	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C556	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C557	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C701	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C703	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C705	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C706	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C708	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C709	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C710	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C712	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C713	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C715	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C716	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C718	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C719	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C721	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C722	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C723	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C724	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C725	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C726	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C727	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C728	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C729	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C730	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C733	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C734	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C735	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C736	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C737	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C739	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C740	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C741	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C743	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C745	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C746	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C747	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C749	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C750	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C756	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C765	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C767	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C768	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C769	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C772	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C775	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C777	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C778	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C841	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C842	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C851	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C852	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C853	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
C854	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C855	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C856	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C901	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C902	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C915	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C916	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C917	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C918	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C919	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C920	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C921	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C929	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C938	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C939	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C953	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C971	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C972	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C973	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C975	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C976	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C981	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C982	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C985	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C986	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C987	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C988	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C991	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2201	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2202	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2603	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2604	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2651	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2653	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3007	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3010	QEZ0244-229	EDL CAPACITOR	0.022F 5.5V Z	
C3014	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3015	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3016	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3022	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	
C3026	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C3030	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3031	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3032	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3038	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3039	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3042	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3051	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C5401	QEKC1AM-107Z	E CAPACITOR	100uF 10V M	
C5402	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5403	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5404	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5405	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C6501	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6502	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6503	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C6504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6506	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C6507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6508	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C6509	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6510	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6512	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C6514	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C6515	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6516	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6520	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6521	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6522	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6523	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
R206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R217	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R218	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R223	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R224	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R225	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R518	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R521	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R527	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R528	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R529	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R704	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R710	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R718	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R721	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R726	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R727	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R728	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R729	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R731	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R732	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R733	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R744	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R745	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R746	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R748	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R751	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R752	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R753	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R757	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R758	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R851	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R852	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R853	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R854	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R855	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R856	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R857	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R901	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R902	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R903	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R904	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R905	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R919	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R920	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R921	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R922	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R923	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R928	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R929	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R938	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R939	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R940	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R941	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R942	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R943	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R944	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R953	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R961	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R962	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R963	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R964	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R965	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R966	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R971	QRE123J-271X	C RESISTOR	270Ω 1/2W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R972	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R973	QRE123J-271X	C RESISTOR	270Ω 1/2W J	
R974	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R975	QRE123J-271X	C RESISTOR	270Ω 1/2W J	
R976	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R981	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R982	QRE123J-271X	C RESISTOR	270Ω 1/2W J	
R988	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R993	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2208	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2209	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2210	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2612	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2613	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2615	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2616	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2621	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2623	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2624	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2625	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2627	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2629	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2630	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2631	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2651	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2654	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2655	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2656	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2658	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2659	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2660	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2661	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2662	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2663	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2666	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2667	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3014	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3017	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3028	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3029	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3032	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3035	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3037	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3040	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3051	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3053	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3054	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3057	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3072	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3079	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3085	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3087	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3090	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3091	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3092	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3093	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3094	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3095	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3096	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3201	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3202	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3204	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3205	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3207	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3221	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3230	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3232	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3239	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3240	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3248	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3249	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3250	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3251	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3255	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3256	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3257	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3259	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3266	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3275	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3276	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R5401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6030	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6503	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6508	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L201	QQL29BK-1R0Z	P COIL	1uH K	
L206	QQL29BJ-220Z	P COIL	22uH J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L211	QQL29BJ-100Z	P COIL	10uH J	
L212	QQL071J-8R2Y	COIL	8.2uH J	
L501	QQL29BJ-100Z	P COIL	10uH J	
L502	QQL29BJ-100Z	P COIL	10uH J	
L504	QQL231J-330Y	COIL	33uH J	
L701	QQL29BJ-100Z	P COIL	10uH J	
L702	QQL29BJ-100Z	P COIL	10uH J	
L704	QQL231J-330Y	COIL	33uH J	
L706	QQL29BJ-100Z	P COIL	10uH J	
L707	QQL231J-8R2Y	COIL	8.2uH J	
L851	QQL071J-1R0Y	COIL	1uH J	
L901	QQL29BJ-100Z	P COIL	10uH J	
L903	QQL29BJ-100Z	P COIL	10uH J	
L906	QQL29BJ-100Z	P COIL	10uH J	
L3001	QQL231J-R22Y	COIL	0.22uH J	
L6001	QQL071J-1R0Y	COIL	1uH J	
L6004	QQL071J-1R0Y	COIL	1uH J	
B201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B206	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B911	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B912	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B913	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B915	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B916	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B991	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B992	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3966	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3971	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN501	QGF1016C3-07	CONNECTOR	FFC/FPC (1-7)	
CN701	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN901	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN2601	QGF1016C3-08	CONNECTOR	FFC/FPC (1-8)	
CN2602	QGB1231L1-11	CONNECTOR	B-B (1-11)	
CN3014	QGF1016C3-07	CONNECTOR	FFC/FPC (1-7)	
CN3102	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN3103	QGB1231L1-19	CONNECTOR	B-B (1-19)	
CN3104	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN3901	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN5402	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN5403	QGA2001C1-05	CONNECTOR	W-B (1-5)	
CN5404	QGF1207C1-08	CONNECTOR	FFC/FPC (1-8)	
⚠ CP5401	QMFZ050-1R5X-E	FUSE	1.5A 125V	
⚠ CP5402	QMFZ050-1R5X-E	FUSE	1.5A 125V	
GN2	QNZ0136-001Z	EARTH PLATE		
J841	GP1FA553TZ0F	OPT TRANSMITTER	OPTICAL OUT	
J852	QNN0096-001	PIN JACK	COAXIAL OUT	
J901	QNZ0609-001	AV JACK	S-VIDEO/VIDEO/AUDIO IN(HDD/DVD)/OUT(L-1)	
J902	QNN0528-001	PIN JACK	S-VIDEO/VIDEO/AUDIO OUTPUT	
J903	QNN0587-002	PIN JACK	COMPONENT VIDEO OUT	
J906	QNS0100-001	3.5 JACK	REMOTE IN	
J953	QNZ0093-001	BNC CONNECTOR	DV/HDD/DVD BNC VIDEO OUTPUT	
K851	NQR0227-004X	FERRITE BEADS		
K852	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K853	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
OT1	LP31378-001A	BOSS(MECHA)3		
OT2	LP31379-001A	BOSS(MECHA)4	(x2)	
TU6001	QAU0409-001	TUNER		
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W11	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W33	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W34	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W36	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W37	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W38	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W40	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W43	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W45	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W46	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W47	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W48	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W49	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W50	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W51	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W53	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W54	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W55	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W56	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W57	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W58	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W59	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W60	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W61	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W62	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W63	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W64	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W65	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W66	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X201	QAX0865-001	CRYSTAL	7159.09kHz	
X701	QAX0739-001	CRYSTAL	3.57MHz	
X3001	QAX0445-001	CRYSTAL	32.768kHz	
X3002	QAX0527-001	CRYSTAL	10.000000MHz	

Operation/jack board

Block No. [2][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A5	OPERATION/JACK BOARD ASSY		
C7206	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7211	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R7202	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	
R7206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7207	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7212	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7213	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7215	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
CN7201	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	
J7201	QNN0592-002	PIN JACK	FRONT AV IN	
J7204	QND0085-001	S JACK	FRONT S-VIDEO IN	
S7211	QSW0381-001Z	TACT SWITCH	CH+	
S7212	QSW0381-001Z	TACT SWITCH	OPERATE	
S7213	QSW0381-001Z	TACT SWITCH	DISPLAY	
S7214	QSW0381-001Z	TACT SWITCH	CH-	
S7215	QSW0381-001Z	TACT SWITCH	DV_EJECT	
WR1	QUB221-10A4XL-E	SIN TWIST WIRE		

Display/Switch board

Block No. [2][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A4	DISPLAY/SWITCH BOARD ASSY		
IC7001	PT6315	IC		
IC7001 or	PT6315	IC		
IC7002	GP1UM281XKVF	IR DETECT UNIT		
IC7002 or	PNA4652M00XB	IR DETECT UNIT		
Q7001	UN221L-X	DIGI TRANSISTOR		
Q7001 or	DTC143EKA-X	DIGI TRANSISTOR		
Q7001 or	RT1N431C-X	DIGI TRANSISTOR		
Q7002	UN221L-X	DIGI TRANSISTOR		
Q7002 or	DTC143EKA-X	DIGI TRANSISTOR		
Q7002 or	RT1N431C-X	DIGI TRANSISTOR		
Q7003	UN221L-X	DIGI TRANSISTOR		
Q7003 or	DTC143EKA-X	DIGI TRANSISTOR		
Q7003 or	RT1N431C-X	DIGI TRANSISTOR		
D7003	1SS133-T2	SI DIODE		
D7003 or	1SS270A-T2	SI DIODE		
D7004	1SS133-T2	SI DIODE		
D7004 or	1SS270A-T2	SI DIODE		
D7005	1SS133-T2	SI DIODE		
D7005 or	1SS270A-T2	SI DIODE		
D7012	1SS133-T2	SI DIODE		
D7012 or	1SS270A-T2	SI DIODE		
D7013	1SS133-T2	SI DIODE		
D7013 or	1SS270A-T2	SI DIODE		
D7014	1SS133-T2	SI DIODE		
D7014 or	1SS270A-T2	SI DIODE		
D7021	MTZJ9.1B-T2	Z DIODE		
D7021 or	MTZJ9.1B-T2	Z DIODE		
D7041	SLR-343MC-T	LED	DV	
D7042	SLR-343VC-T	LED	DV REC	
D7043	SLR-343VC-T	LED	HDD REC	
D7044	SLR-343VC-T	LED	DVD REC	
D7046	SLR-343MC-T	LED	HDD	
D7047	SLR-343MC-T	LED	DVD	
C7001	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C7002	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7003	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	
C7006	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7008	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C7010	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
C7011	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
R7001	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7002	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7003	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7005	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7006	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7007	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7009	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7013	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7014	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7022	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7041	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7042	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7043	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7044	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R7046	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7047	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CN7001	QGF1209F2-15	CONNECTOR	FFC/FPC (1-15)	
DI7001	QLF0143-001	FL TUBE		
HD1	PQ34949-1-1	FL HOLDER(L)		
HD2	PQ34950-1-1	FDP HOLDER(R)		
S7004	QSW0381-001Z	TACT SWITCH	AUDIO DUB.	
S7012	QSW0381-001Z	TACT SWITCH	DV/HDD/DVD	
S7013	QSW0381-001Z	TACT SWITCH	FF	
S7014	QSW0381-001Z	TACT SWITCH	PAUSE	
S7015	QSW0381-001Z	TACT SWITCH	STOP	
S7023	QSW0381-001Z	TACT SWITCH	REC MODE	
S7024	QSW0381-001Z	TACT SWITCH	INSERT	
S7025	QSW0381-001Z	TACT SWITCH	INSTANT REPLAY	
S7032	QSW0381-001Z	TACT SWITCH	DVD_EJECT	
S7033	QSW0381-001Z	TACT SWITCH	REW	
S7034	QSW0381-001Z	TACT SWITCH	REC	
S7035	QSW0381-001Z	TACT SWITCH	PLAY	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W43	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DV jack board

Block No. [3][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A3	DV JACK BOARD ASSY		
CN4104	QGA2001C1-06	CONNECTOR	W-B (1-6)	
J4112	QNZ0675-001	D CONNECTOR	FRONT DV IN/OUT	
K4101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DV main board

Block No. [5][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10270-02C	DV MAIN BOARD ASSY		
IC1001	MM1561JF-X	IC		
IC1002	MM1572FN-X	IC		
IC1003	MM1573AN-X	IC		
IC1004	MM1572KN-X	IC		
IC1005	S-80823CNNB-G-W	IC		
IC1501	D703040YJ13-A	IC(MCU)		
IC1501 or	D70F3040YJ13-A	IC(MCU)		
IC1502	TC7W14FK-X	IC		
IC1503	TC7W04FU-X	IC(DIGITAL)		
IC1504	CAT25C16SI-X	IC		
IC2001	JCY0152-2	IC		
IC2101	JCY0177-W	IC		
IC2102	SN74AHC1G04DC-X	IC		
IC3001	JCP8029	IC		
IC3101	TC7SH04F-X	IC(DIGITAL)		
IC3102	TC7SH04F-X	IC(DIGITAL)		
IC3151	M62366GP-D-X	IC		
IC3501	NJM2538V-X	IC		
IC3701	AK4550VT-X	IC		
IC3702	BA15218F-XE	IC		
IC3702 or	RC4558D-X	IC		
IC3703	BA15218F-XE	IC		
IC3703 or	RC4558D-X	IC		
IC4001	JCY0132	IC		
IC4002	TC7SH00FU-X	IC(DIGITAL)		
Q1001	2SB1302/ST/-X	TRANSISTOR		
Q1002	DTC144EE-X	DIGI TRANSISTOR		
Q1003	2SB1302/ST/-X	TRANSISTOR		
Q1004	DTC144EE-X	DIGI TRANSISTOR		
Q1005	2SB1302/ST/-X	TRANSISTOR		
Q1006	DTC144EE-X	DIGI TRANSISTOR		
Q1007	2SB1302/ST/-X	TRANSISTOR		
Q1008	DTC144EE-X	DIGI TRANSISTOR		
Q1501	2SC4617/RS/-X	TRANSISTOR		
Q1502	2SC4617/RS/-X	TRANSISTOR		
Q1503	2SC4617/RS/-X	TRANSISTOR		
Q1511	DTA114EE-X	DIGI TRANSISTOR		
Q1512	UMC3N-W	DIGI TRANSISTOR		
Q1513	UMC3N-W	DIGI TRANSISTOR		
Q3101	2SA1576A/RS/-X	TRANSISTOR		
Q3102	2SA1576A/RS/-X	TRANSISTOR		
Q3111	2SA1576A/RS/-X	TRANSISTOR		
Q3112	HN1B04FU/YG/-X	PAIR TRANSISTOR		
Q3113	2SC4081/RS/-X	TRANSISTOR		
Q3114	2SC4081/S/-X	TRANSISTOR		
Q3115	DTC144EE-X	DIGI TRANSISTOR		
Q3131	2SA1576A/RS/-X	TRANSISTOR		
Q3132	HN1B04FU/YG/-X	PAIR TRANSISTOR		
Q3133	2SC4081/RS/-X	TRANSISTOR		
Q3135	DTC144EE-X	DIGI TRANSISTOR		
Q3501	DTC144EE-X	DIGI TRANSISTOR		
Q3502	2SA1576A/RS/-X	TRANSISTOR		
Q3503	2SA1576A/RS/-X	TRANSISTOR		
Q3521	2SA1576A/RS/-X	TRANSISTOR		
Q3522	2SA1576A/RS/-X	TRANSISTOR		
Q4002	2SC4083/NP/-X	TRANSISTOR		
Q4003	2SC4083/NP/-X	TRANSISTOR		
Q4004	2SC4083/NP/-X	TRANSISTOR		
D1501	SB007W03Q-X	SB DIODE		
D1502	SB007W03Q-X	SB DIODE		
D1503	SB007W03Q-X	SB DIODE		
D1504	SB007W03Q-X	SB DIODE		
D1505	SB007W03Q-X	SB DIODE		
D1506	SB007W03Q-X	SB DIODE		
D2002	EC2C01C-TR-X	VARI CAP DIODE		
D2003	EC2C01C-TR-X	VARI CAP DIODE		
D2004	EC2C01C-TR-X	VARI CAP DIODE		
C1001	NEX60JM-227X	E CAPACITOR	220uF 6.3V M	
C1002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1003	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C1006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1007	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1008	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1009	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1012	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1014	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1015	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1016	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1017	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1018	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1020	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1021	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1022	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1023	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1024	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1025	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1026	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1027	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1028	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1029	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1030	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1508	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1509	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C1510	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C1515	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1516	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1517	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1518	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1522	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1531	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C1532	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2014	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C2015	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2017	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C2018	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C2019	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C2020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2024	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C2025	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C2026	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2027	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2028	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2041	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2047	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C2048	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C2051	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2052	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C2055	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C2056	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2057	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C2058	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C2059	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C2060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2061	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C2062	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C2063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2064	NEHM0GM-476X	E CAPACITOR	47uF 4V M	
C2065	NBAD0GM-227X	OS E CAPACITOR	220uF 2.5V M	
C2071	NBE20GM-107X	TA E CAPACITOR	100uF 4V M	
C2073	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C2075	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2076	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2077	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2078	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2086	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3005	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3011	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3018	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3021	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3102	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C3103	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3106	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3108	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3112	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C3113	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3114	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3115	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3116	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3117	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3119	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3120	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3123	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3124	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3127	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3130	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3131	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3132	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3142	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3143	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3144	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3503	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3504	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3505	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C3506	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3507	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3508	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3515	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3521	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C3523	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3531	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3532	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C3533	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3534	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C3535	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3536	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3537	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C3538	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3539	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C3540	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3701	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C3702	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C3703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3705	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3708	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3712	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3714	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3717	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3718	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3725	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C3726	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C3728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3729	NEAF1CM-476X	E CAPACITOR	47uF 16V M	
C3730	NEAF1CM-476X	E CAPACITOR	47uF 16V M	
C3731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3733	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C3734	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C4001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4003	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C4005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4007	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C4009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4011	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C4013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4015	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C4021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4022	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C4023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4024	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C4025	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4027	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4028	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C4029	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C4030	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C4031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4032	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C4033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4034	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C4036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4038	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C4039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4041	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C4046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4061	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C4062	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C4063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4064	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C4065	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4066	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C4067	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1002	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1008	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1009	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1505	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1506	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1516	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1517	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R1518	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1519	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1520	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1526	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1531	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1532	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1533	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1534	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1543	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1554	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1555	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1571	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1582	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1583	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1585	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1591	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1592	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1593	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1594	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1595	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1596	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1601	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1602	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1613	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1614	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1615	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1616	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1617	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1631	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1632	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1633	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1634	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2012	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2014	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2018	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2019	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2020	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2023	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2027	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2033	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R2034	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2035	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2036	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2037	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2038	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2039	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2040	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R2041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2043	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2047	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2048	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2050	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2073	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2091	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2098	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2104	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R2105	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2108	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2109	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2111	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2112	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2113	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2114	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R2116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2126	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3003	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3004	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3008	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3073	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3074	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3075	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3076	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3078	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3079	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3081	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3103	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3111	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3112	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3113	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3114	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3117	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3118	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3119	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3120	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3121	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3122	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3123	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3124	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3125	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3131	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3132	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3133	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3134	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3135	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3136	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3137	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3138	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3139	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R3140	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3141	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3142	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3143	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3161	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3162	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3163	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3164	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3165	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3501	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R3502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3503	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3504	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3506	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3515	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3521	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R3522	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3523	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3526	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3527	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3528	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3529	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3533	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3544	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R3545	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R3546	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3547	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3548	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3549	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3551	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3552	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3556	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3557	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3560	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3701	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3703	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3704	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3714	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R3715	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R3716	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3723	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3726	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3727	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3728	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4001	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4004	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R4005	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R4006	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R4007	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R4008	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4009	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4010	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4031	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4032	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4034	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4035	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4036	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4037	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4038	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4039	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4040	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4041	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4043	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
RA1505	NRZ0040-102X	NET RESISTOR	1kΩ 1/16W J x4	
RA1509	NRZ0040-102X	NET RESISTOR	1kΩ 1/16W J x4	
RA1510	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4	
L1001	NQL144K-100X	P COIL	10uH K	
L1002	NQL17CM-390X	COIL	39uH M	
L1003	NQL17CM-390X	COIL	39uH M	
L1004	NQL17CM-390X	COIL	39uH M	
L1501	NQL144K-100X	P COIL	10uH K	
L1502	NQL144K-100X	P COIL	10uH K	
L2002	NQL144K-100X	P COIL	10uH K	
L2003	NQL144K-100X	P COIL	10uH K	
L2004	NQL144K-100X	P COIL	10uH K	
L2005	NQL144K-100X	P COIL	10uH K	
L2006	NQL144K-100X	P COIL	10uH K	
L2007	NQL144K-100X	P COIL	10uH K	
L2009	NQL904J-2R2X	COIL	2.2uH J	
L2011	NQL904J-120X	COIL	12uH J	
L2015	NQR0337-001X	CHOKE COIL		
L2101	NQL144K-100X	P COIL	10uH K	
L3001	NQL144K-100X	P COIL	10uH K	
L3021	NQL144K-100X	P COIL	10uH K	
L3022	NQL144K-100X	P COIL	10uH K	
L3101	NQL144K-100X	P COIL	10uH K	
L3103	NQL144K-100X	P COIL	10uH K	
L3104	NQL144K-100X	P COIL	10uH K	
L3111	NQL904J-150X	COIL	15uH J	
L3112	NQL904J-150X	COIL	15uH J	
L3131	NQL904J-150X	COIL	15uH J	
L3132	NQL904J-150X	COIL	15uH J	
L3151	NQL144K-100X	P COIL	10uH K	
L3521	NQL144K-100X	P COIL	10uH K	
L3522	NQL144K-100X	P COIL	10uH K	
L3531	NQL904J-120X	COIL	12uH J	
L3532	NQL904J-270X	COIL	27uH J	
L3533	NQL904J-120X	COIL	12uH J	
L3534	NQL904J-270X	COIL	27uH J	
L3701	NQL144K-100X	P COIL	10uH K	
L3702	NQL144K-100X	P COIL	10uH K	
L4001	NQL144K-100X	P COIL	10uH K	
L4002	NQL144K-100X	P COIL	10uH K	
L4003	NQL144K-100X	P COIL	10uH K	
L4005	NQL144K-100X	P COIL	10uH K	
L4011	NQL144K-100X	P COIL	10uH K	
L4012	NQL904J-R47X	COIL	0.47uH J	
L4013	NQL904J-R47X	COIL	0.47uH J	
CN1001	QGF1211F1-08W	CONNECTOR	FFC/FPC (1-8)	
CN1501	QGF0503C1-20X	CONNECTOR	FFC/FPC (1-20)	
CN1502	QGF0505F2-15X	CONNECTOR	FFC/FPC (1-15)	
CN1503	QGF1016F2-07W	CONNECTOR	FFC/FPC (1-7)	
CN1505	QGF1016C2-04W	CONNECTOR	FFC/FPC (1-4)	
CN2001	QGB0801L1-26X	CONNECTOR	B-B (1-26)	
CN2002	QGA2001C6-06X	CONNECTOR	W-B (1-6)	
CN3501	QGF1016F2-07W	CONNECTOR	FFC/FPC (1-7)	
CN3701	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN4001	QGF0503C1-08X	CONNECTOR	FFC/FPC (1-8)	
K1001	NQR0129-002X	FERRITE BEADS		
K2101	NQR0006-001X	FERRITE BEADS		
K3101	NQR0129-002X	FERRITE BEADS		
K4001	NQR0129-002X	FERRITE BEADS		
LC1002	NQR0388-019X	EMI FILTER		
LC1003	NQR0388-019X	EMI FILTER		
LC1004	NQR0388-019X	EMI FILTER		
LC3101	NQR0150-004X	EMI FILTER		
OT1	QNZ0136-001Z	EARTH PLATE	(x4)	
SD1	LP30467-001A	SHIELD COVER		
X1501	NAX0204-001X	CRYSTAL	16.000MHz	
X2003	NAX0206-001X	CRYSTAL	24.576MHz	
X3101	NAX0218-001X	CRYSTAL	27.000MHz	

Junction board

Block No. [9][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A2	JUNCTION BOARD ASSY		
IC5502	MM1565AF-X	IC		
IC5505	MM1563DF-X	IC		
IC5506	MPD4S010	IC(HYBRID)		
IC7101	MM1623XF-X	IC		
IC8001	RC4558D-X	IC		
IC8001 or	BA15218F-XE	IC		
IC8002	AK5357ET-X	IC		
IC8002 or	AK5357VT-X	IC		
IC8201	RC4558D-X	IC		
IC8201 or	BA15218F-XE	IC		
IC8202	AK4385ET-X	IC		
IC8202 or	AK4385VT-X	IC		
Q5501	2SD601A/QRS/-X	TRANSISTOR		
Q5501 or	2SC2412K/QRS/-X	TRANSISTOR		
Q5501 or	2SC3928A/QRS/-X	TRANSISTOR		
Q5502	UN2111-X	TRANSISTOR		
Q5502 or	DTA114EKA-X	DIGI TRANSISTOR		
Q5502 or	RT1P141C-X	DIGI TRANSISTOR		
Q5503	2SD2144S/UV/-T	TRANSISTOR		
Q5503 or	2SC3576-JVC-T	TRANSISTOR		
Q5504	UN2211-X	TRANSISTOR		
Q5504 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5504 or	RT1N141C-X	DIGI TRANSISTOR		
Q5505	UN2111-X	TRANSISTOR		
Q5505 or	DTA114EKA-X	DIGI TRANSISTOR		
Q5505 or	RT1P141C-X	DIGI TRANSISTOR		
Q5506	UN2211-X	TRANSISTOR		
Q5506 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5506 or	RT1N141C-X	DIGI TRANSISTOR		
Q5507	2SD1858/QR/-T	TRANSISTOR		
Q5508	2SA1585S/QR/-T	TRANSISTOR		
Q5509	2SA1585S/QR/-T	TRANSISTOR		
Q5510	UN2211-X	TRANSISTOR		
Q5510 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5510 or	RT1N141C-X	DIGI TRANSISTOR		
Q7101	2SB709A/QR/-X	TRANSISTOR		
Q7101 or	2SA1037AK/QR/-X	TRANSISTOR		
Q7101 or	2SA1530A/QR/-X	TRANSISTOR		
Q8001	2SC2412K/QRS/-X	TRANSISTOR		
Q8001 or	2SD601A/QRS/-X	TRANSISTOR		
Q8001 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8002	2SC2412K/QRS/-X	TRANSISTOR		
Q8002 or	2SD601A/QRS/-X	TRANSISTOR		
Q8002 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8003	DTC144WKA-X	DIGI TRANSISTOR		
Q8003 or	UN221E-X	TRANSTSTOR		
Q8003 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8004	DTC144WKA-X	DIGI TRANSISTOR		
Q8004 or	UN221E-X	TRANSTSTOR		
Q8004 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8005	DTA144WKA-X	TRANSISTOR		
Q8005 or	UN211E-X	DIGI TRANSISTOR		
Q8005 or	RT1P44HC-X	DIGI TRANSISTOR		
D5501	10EDB20-T2	SI DIODE		
D5501 or	10EDB20-T2	SI DIODE		
D5501 or	ERA15-02-T2	SI DIODE		
D5502	1SS133-T2	SI DIODE		
D5502 or	1SS270A-T2	SI DIODE		
D5503	MTZJ27C-T2	Z DIODE		
D5503 or	MTZJ27C-T2	Z DIODE		
D5504	MTZJ5.6C-T2	Z DIODE		
D5504 or	MTZJ5.6C-T2	Z DIODE		
D5508	1SS133-T2	SI DIODE		
D5508 or	1SS270A-T2	SI DIODE		
C5504	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5505	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5506	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5513	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5514	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5515	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5516	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5518	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5519	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5521	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5523	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5526	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5527	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5535	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C7101	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7102	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7103	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C7104	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C7105	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C7106	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C7107	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C7109	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7112	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7123	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C7124	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C8001	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8003	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8007	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8009	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8010	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8011	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8013	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8014	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8015	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8051	QETN0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8052	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8054	QETN0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8056	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8057	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8201	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8202	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8203	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8204	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8205	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8206	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8207	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8208	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8209	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8210	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8231	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8232	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R5501	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R5502	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R5503	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5505	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5506	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R5507	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R5510	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R5511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5512	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R5513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5514	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R7101	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R7102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7145	NRSA63J-200X	MG RESISTOR	20Ω 1/16W J	
R7146	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7147	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7148	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R7149	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R7150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R7151	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7153	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R8002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8009	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8010	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8011	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8013	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8014	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8015	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8016	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8018	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R8019	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R8051	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8203	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8204	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8205	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8206	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8207	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8209	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8210	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8211	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8212	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8213	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8214	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8215	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8216	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8219	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8220	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8221	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8222	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8231	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8232	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8233	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
L7101	QQL29BJ-100Z	P COIL	10uH J	
L7102	QQL071J-6R8Y	COIL	6.8uH J	
L8001	QQL29BJ-220Z	P COIL	22uH J	
L8002	QQL29BJ-220Z	P COIL	22uH J	
B7101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN5501	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
CN5502	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN5504	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN7102	QGB1231M1-19	CONNECTOR	B-B (1-19)	
CN7106	QGF1016C3-04	CONNECTOR	FFC/FPC (1-4)	
CN7107	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN7108	QGB2027M3-28S	CONNECTOR	B-B (1-28)	
CN7109	QGB2027M4-20S	CONNECTOR	B-B (1-20)	
CN7121	QGB2027M9-14	CONNECTOR	B-B (1-14)	
CN7123	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7124	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7126	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN7127	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN8001	QGB1231M1-11	CONNECTOR	B-B (1-11)	
J5501	QUB430-04A2A2-E	SIN TWIST WIRE		
K4111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7101	NQR0129-002X	FERRITE BEADS		
K7102	NQR0129-002X	FERRITE BEADS		
K7103	NQR0129-002X	FERRITE BEADS		
K7104	NQR0129-002X	FERRITE BEADS		
K8001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8202	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
KA4113	NQR0577-001X	NOISE FILTER		
KA4114	NQR0577-001X	NOISE FILTER		
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W11	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

D-SUB board

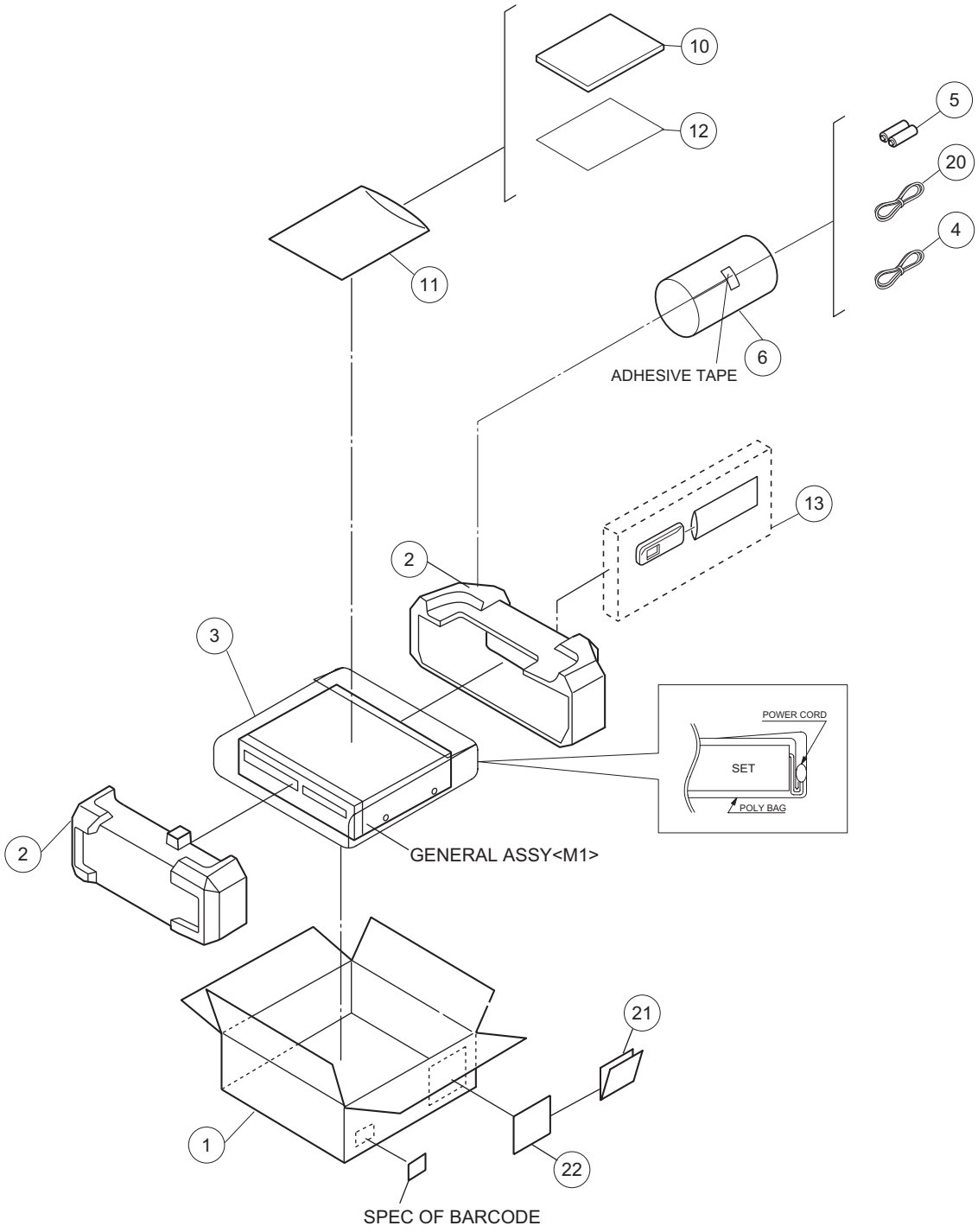
Block No. [9][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10275-03A7	D-SUB BOARD ASSY		
IC7401	MAX3221CDB-X	IC		
IC7401 or	MAX3221CDB-X	IC		
C7401	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C7402	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C7403	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C7404	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C7405	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
CN7401	QGF1016C3-04	CONNECTOR	FFC/FPC (1-4)	
J7401	QNZ0587-001	D CONNECTOR	SERIAL COMMAND CONNECTOR	

Packing materials and accessories parts list

The instruction manual to be provided with this product will differ according to the destination.

Block No. M3MM



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LP31469-008A	PACKING CASE		
2	LP31454-002A	CUSHION ASSY		
3	PQM30021-105	POLY BAG		
4	QAM0501-003	RF CABLE		
5	----------	BATTERY		R6 TYPE(x2)
6	QPC02202230P	POLY BAG		22cm x 22cm
⚠ 10	LPT1006-001A	INST.BOOK		(ENGLISH)
⚠ 10	LPT1006-002A	INST.BOOK		(FRENCH)
11	QPC02503530P	POLY BAG		25cm x 35cm
12	LPT1055-001A	SHEET(CAUTION)		
13	RM-SDR049U	REMOCON		
20	QAM0498-001	A/V CABLE		
21	----------	WARRANTY CARD		BT-51010-3
22	LP31500-001A	POLY BAG		